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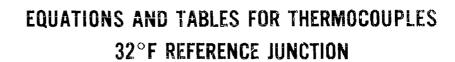


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AEDC-TDR-64-55

WEERING DEVELOPME



Ву

W. E. Spengler and D. K. Graham Propulsion Wind Tunnel Facility ARO, Inc.

TECHNICAL DOCUMENTARY REPORT NO. AEDC-TDR-64-55

March 1964

Program Element 65402034

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EQUATIONS AND TABLES FOR THERMOCOUPLES 32°F REFERENCE JUNCTION

Ву

W. E. Spengler and D. K. Graham
Propulsion Wind Tunnel Facility
ARO, Inc.
a subsidiary of Sverdrup and Parcel, Inc.

March 1964

ARO Project No. 932002

ABSTRACT

National Bureau of Standards tables of electromotive-force versus temperature for thermocouples have been fitted to third degree polynomials in parts. The resulting coefficients are presented for six types of thermocouples. Tables derived from the fitted equations are also presented.

PUBLICATION REVIEW

This report has been reviewed and publication is approved.

Frank F. Marvin Lt Col, USAF

AF Representative, PWT

DCS/Test

Jean A. Jack Colonel, USAF

DCS/Test

CONTENTS

		Page
1.0 2.0 3.0 4.0	TRACT. INTRODUCTION PROCEDURE. APPLICATION. ACCURACY. ERENCES.	iii 1 1 2 2
	ILLUSTRATION	
1.	Error Curves for Thermocouples	3
	TABLES	
1.	Coefficients for the Equation, $T = a_0 + a_1 (mv) + a_2 (mv)^2 + a_3 (mv)^3$	5
2.	Temperature vs Millivolts for Chromel-Alumel Thermocouples	7
3.	Temperature vs Millivolts for Iron-Constantan Thermocouples	21
4.	Temperature vs Millivolts for Chromel-Constantan Thermocouples	35
5.	Temperature vs Millivolts for Platinum-Platinum + 10% Rhodium Thermocouples	53
6.	Temperature vs Millivolts for Platinum-Platinum + 13% Rhodium Thermocouples	59
7.	Temperature vs Millivolts for Copper-Constantan Thermocoupies	65
	NOMENCLATURE	
\mathbf{T}	Temperature in degrees Fahrenheit	
mv	Electromotive-force in absolute millivolts for a 32^{C} reference junction	'F

1.0 INTRODUCTION

The continued requirement of reducing thermocouple millivolt signals to temperature in the automatic data reduction process has created the need of equations to express available table data. The six most used types of thermocouples in the Propulsion Wind Tunnel (PWT) have been fitted to third degree polynomials in parts. The resulting coefficients are presented in Table 1.

Tables have been calculated to provide a fast check of problems which require the use of the fitted equations. Electromotive force in millivolts versus temperature in degrees Fahrenheit are found in Tables 2 through 7.

2.0 PROCEDURE

Selected data from National Bureau of Standards (NBS) thermocouple tables (Ref. 1) were used in an automatic computer program utilizing the "Orthogonal Polynomials in the Least Squares Fitting of Unequally Spaced Data" method given in Ref. 2. The coefficients a_0 through a_3 of the equation

$$T = a_0 + a_1(mv) + a_2(mv)^2 + a_3(mv)^3, o_F$$

were determined for portions of the full range of each table. The portion of the table fitted was limited so that errors of less than 1°F would be obtainable when the fitted data were compared with the NBS table data.

The thermocouple tables in this report were computed from the fitted polynomials using the ERA 1102 computer. Temperatures are tabulated for every 0.01 millivolts.

All equations and tables presented are based on a $32^{\rm O}{\rm F}$ reference junction.

3.0 APPLICATION

Temperatures can be computed from millivolt readings using the above equation and the proper coefficients \mathbf{a}_0 through \mathbf{a}_2 given in Table 1.

Manuscript received March 1964.

Subroutines for automatic calculation in the ERA 1102 computer have been programmed for the range of -8 to 75 millivolts and -342 to $3262^{\rm o}F$.

Tables 2 through 7 are arranged for selection of temperature for each 0.01 millivolt increment.

The range of each table is as follows:

Table	Type Thermocouple	Millivolt Range	Temperature Range, F
2.	Chromel-Alume1	-4.99 to 54.99	-252 to 2504
3.	Iron-Constantan	-7.49 to 49.99	-298 to 1598
4.	Chromel-Constantan	-7.99 to 74.99	-281 to 1797
5.	Platinum-Platinum + 10% Rhodium	0 to 18.49	32 to 3185
6.	Platinum-Platinum 13% Rhodium	0 to 19.99	32 to 3097
7.	Copper-Constantan	-4.99 to 19.99	-272 to 727

4.0 ACCURACY

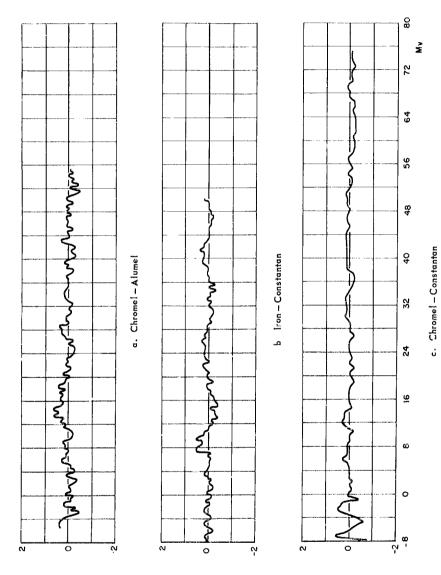
Previous experience had shown that good fitting accuracy could be obtained only by using a very high order polynomial for most thermocouple tables. For this reason it was decided to fit parts of each table to third degree polynomials with a requirement of better than $1^{\rm OF}$ accuracy. The $1^{\rm OF}$ accuracy limit has no significance except that it is less than the 4 to $5^{\rm OF}$ error expected in uncalibrated thermocouples. Also it will normally provide acceptable accuracy where heating rates are to be determined.

In the region of temperature to which each thermocouple is applied in PWT, errors were kept to less than 0.5 deg. An error curve is presented in Fig. 1 for each thermocouple.

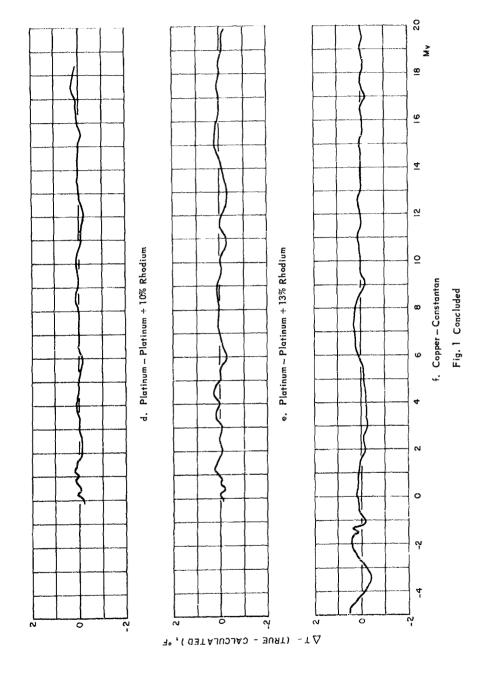
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- Henry Chenker, John T. Lauritzen, Jr., Robert J. Corruccini, and S. T. Lonberger, "Reference Tables for Thermocouples," NBS Circular 561.
- 2. P. G. Guest, "Orthogonal Polynomials in the Least Squares Fitting of Observations," Philosophical Magazine, 1950.

Fig. 1 Error Curves for Thermocouples



A. (TRUE - CALCULATED), "F



4

TABLE 1

COEFFICIENTS FOR THE EQUATION,

 $T(^{\circ}F) = a_0 + a_1(mv) + a_2(mv)^2 + a_3(mv)^3$ (32 °F Reference Junction)

Chromel vs. Alumel								
Millivolt Range	a _o	a,	8.2	as				
- 4.99 \le mv \le - 0.60 - 0.60 \le mv \le 6.00 6.00 \le mv \le 11.20 11.20 \le mv \le 27.75 27.75 \le mv \le 42.75 42.75 \le mv \le 54.99	34.8143 31.9314 37.8303 21.0000 62.2065 -442.9660	51.7169 45.9088 39.9429 47.2790 43.5592 76.2616	2.1368 - 0.7951 0.7136 - 0.2168 - 0.1162 - 0.8188	.6626 .0783 0334 .0031 .00239				

	Iron va	. Constantan	·	
$-7.49 \le mv \le -4.00$ $-4.00 \le mv \le 5.99$	109.6757 32.1458	83.6977 35.7773	9.4929 - 0.4891	•7453 •0333
5.99 < mv \(\) 22.00	41.3000	32.5200	o .	0
$22.00 < mv \le 32.72$ $32.72 < mv \le 49.99$	116.8400	22.5860 72.9579	0.4357 - 1.0038	00635

Platinum - Platinum + 10 percent Rhodium											
0 ≤ mv 1.00 < mv	<u> </u>	1.00	32.1743 55.4855	324.5434 258.2756	-86.8832 -19.3142	26.4537 1.7756					
3.00 < mv 9.40 < mv	_	9.40 14.70	101.9123 16.1503	212.0621	- 3.9503 - 7.0946	.0713 .1838					
14.70 < mv	≤ 1	8.49	2.9500	227.1176	- 5.0482	.1120					

Platinum - Platinum + 13 percent Rhodium												
0 \le mv \le \\ 1.00 < mv \le \\ 3.00 < mv \le \\ 9.50 < mv \le \\ 16.40 < mv \le \\ 17.875 < mv \le \\	1.00	32.1013	328.4190	-94.7849	27.7991							
	3.00	53.2945	263.2782	-25.6978	2.5857							
	9.50	109.8730	204.9557	- 5.1464	.1229							
	16.40	45.2955	221.6315	- 6.4385	.1496							
	17.875	2396.0600	-196.6100	18.4800	3478							
	19.99	1476.8000	- 26.3900	8.0560	1364							

Chromel - Constantan										
$-7.99 \le mv \le -1.02$	34.9749	34.4676	0.7464	.1717						
$-1.02 < mv \le 9.71$	32.0387	30.8632	- 0.4598	.01273						
$9.71 < mv \le 35.57$	44.5596	27.7224	- 0.1590	.00157						
$35.57 < mv \le 74.99$	96.2643	23.4786	- 0.0372	.000354						

	Copper -	Constantan		
$-4.99 \le mv \le -1.27$	42.2547	60.8391	4.6204	1.0106
$-1.27 < mv \le 9.00$	31.8409	46.7569	- 1.2582	.0434
$9.00 < mv \le 19.99$	50.7646	40.1854	- 0.4148	.00475

TABLE 2
TEMPERATURE VS MILLIVOLTS FOR CHROMEL-ALUMEL THERMOCOUPLES

							Ref	erence J	unction,	35 ok
Millivolt	.00	.01	•02	.03	• 04	•05	.06	.07	•08	.09
-04.90	-0245.2	-0246.0	-0246.8	-0247.6	~0248.4	~0249.2	-0250.0	-0250.8	-0251.6	-0252.4
-04.80	-0237.5	-0238.2	-0239.0	-0239.8	-0240.6	-0241.3	-0242.1	-0242.9	-0243.7	-0244.5
-04.70							-0234.4			
-04.60							-0226.6			
-04.50							-0219.4			
4.450		002311	02201)	ALT!	00.2147	021001	00.15	OCCO.T	02204,9	0521.0
-04.40	~0207 B	-0208 E	* 0200 2	70010 A	-0040 7	#0044 B	-0212.1	-0040 8	~0042 E	***********
~04.30							-0205.0			
-04.20	1,0030	-040h c	0202.1	*040E 0	-0406 6	~0407 7	-0197.9	-0400 6	-0200.4	-0207,1
-04.10										
~04.10							-0191.1			
.04.00	0100.2	0100.9	0101.0	0105.3	0102.9	0702.0	-0184.3	-0102.0	-0105.0	-0100.3
~ 03.90	-0472 7	-0420-0	-0475 0	-0475 7	-0477C D	-04577 6	-0.488 (0.170 4	44BD 0	
-03.90	-01/3.1	-01J4.3	-01/5.0	*01/5./	-01/0.3	-0177.0	-0177.6	-0178.3	~0178.9	-0179.6
	-0460.0	-0101.9	-0160.5	-0109.1	-0103.0	-01/0.4	-0171.1	70171.7	-0172.4	-0173.0
-03.70							-0164.7			
-03.60							-0158.3			
-03.50	-0148.4	-0149.0	-0149.7	-0150.3	-0150.9	-0151.5	-0152.1	-0152.7	-0153.3	-0154.0
-03.40							-0146.0			
-03.30							-0140.0			
-03.20							-0134.0			
-03.10	-0124.7	-0125.3	-0125.9	-0126,4	-0127.0	-0127.6	-0128.2	-0128.8	-0129.3	-0129.9
-03.00	-0119.0	-0119.6	-0120.1	-0120.7	-0121.3	-0121.8	-0122.4	-0123.0	-0123.6	-0124.1
-02.90	-0113.4	-0113.9	-01.14.5	-0115.0	-0115.6	-0116.2	-0116.7	-0117.3	-0117.9	-0118.4
-02,80	0107.8	-0108.3	-01.08.9	-0109.5	-0110.0	-0110.6	-0111.1	-0111.7	-0112.2	-0112.8
-02.70							-0105.6			
-02.60	-0096.9									
-02.50	-0091.5	-0092.0	~0092.5	-0093.1	-0093.6	-0094.2	-0094.7	-0095.2	~0095.8	-0096.3
-			-	-			•			
-02.40	-0086.2	-0086.7	-0087.2	-0087,7	-0088.3	-0088.8	-0089.3	-0089.9	~0090.4	-0090.9
-02.30	-0080.9	-0081.4	~0081.9	-0082.5	-0083.0	~0083.5	-0084.0	-0084.6	~0085.1	-0085.6
-02.20	-0075.7	-0076.2	~0076.7	-0077.2	-0077.8	-0078.3	~0078.8	-0079.3	~0079.8	-0080.4
-02.10	-0070.5	-0071.0	~0071.5	-0072.1	-0072.6	-0073.1	-0073.6	-0074.1	~0074.6	-0075.2
-02.00	-0065.4	-0065.9	~0066.4	-0066.9	-0067.4	-0067.9	~0068.4	-0069.0	~0069.5	-0070.0
-01.90	-0060.3	-0060.8	~0061.3	-0061.8	-0062.3	-0062.8	-0063.3	-0063.8	-0064.4	-0064.9
-01.80	~0055.2	-0055.7	~0056.2	-0056.7	-0057.2	-0057.7	-0058.3	-0058.8	-0059.3	-0059.8
-01.70	-0050.2									
-01.60							-0048.2			
-01.50	-0040.2									
-01.40	-0035.2	~0035.7	~0036.2	-0036.7	-0037-2	~co37.7	-0038.2	-0038.7	-0039.2	-0039.7
-01.30	-0030.3									
-01.20	-0025.3									
-01.10	-0020.4									
-01.00	-0015.4									
.02.00	001).4	001).	001084	0010.9	001,14	0011.5	0010.4	0010.9	0019.4	0019.9
-00.90	-0010.5	- ∩011 ∩	-0011 E	~0012 A	-0019 E	-0042 A	-0012 F	×0042 0	-001/1 //	=004#L0
-00.80										
-00.70	-0005.5 -0000.6									
-										
-00.60							0001.4			
-00.50	6,8000	0008.3	8.7000	0007.4	0006.9	0006.4	0006.0	0005.5	0005.0	0004.6
-00.40		0013.0					0010.6	0010.2		0009.2
-00.30		0017.6			0016.8		0015.3	0014.8	0014,4	0013.9
-00.50	0022.7	0022.3	0021.8	0021.3	0020.9	0050*1		0019.5	0019.0	0018.5
~00.10	0027.3	0026.9	0026.4	0025.9	0025.5	0025.0	0024.6	0024.1	0023.6	0083.8
~00,00	0031.9	0031.5	0031.0	0030.6	0030.1	0029.5	0029.2	0028.7	0028,3	8. 1200

Temperature, or

TABLE 2 CHROMEL-ALUMEL (Continued)

							Ret	erence .	unetion,	32 08
Millivolts	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
00.00	0031.9	0032.4	8.5600	0033.3	0033.8	0034.2	0034.7	0035.1	0035.6	0036.1
00.10	0036.5	0037.0	0037.4	0037.9	0038.3	0038,8	0039.3	0039.7	0040.2	0040.6
00.80	0041.1	0041.5	0042.0	0042.4	0042.9	0043.4	0043.8	0044.3	0044.7	0045.2
00.30	0045.6	0046.1	0046.5	0047.0	0047.5	0047.9	0048.4	0048.8	0049.3	0049.7
00.40	0050.2	0050.6	0051.1	0051.5	0052.0	0052.4	0052.9	0053.3	0053.8	0051.2
00.50	0054.7	0055.1	0055.6	0056.1	0056.5	0057.0	0057.4	0057.9	0058.3	0058.8
00.60	0059.2	0059.7	0060.1	0060.6	0061.0	0061.5	0061.9	0062.4	8.5000	0063.3
00.70	0063.7	0064.2	0064.6	0065.1	0065.5	0065.9	0066,4	0066.8	0067.3	0067.7
00.80	0068.2	0068.6	0069.1	0069.5	0070.0	0070.4	0070.9	0071.3	0071.8	0072.2
00.30	0072.7	0073.1	0073.6	0074.0	0074.4	0074.9	0075.3	0075.8	0076.2	0076.7
01.00	0077.1	0077.6	0078.0	0078.5	0078.9	0079.3	0079.8	5.0800	0080.7	0081.1
01.10	0081.6	0082.0	0082.5	0082.9	0083.3	8,8800	0084.2	0084.7	0085.1	0085.6
01.20	0086.0	0086.5	0086.9	0087.3	8.7800	0088.2	0088.7	0089.1	0089.6	0090.0
01.30	0090.4	0090.9	0091.3	0091.8	0095.5	0092.7	0093.1	0093.5	0094.0	0094.4
01.40	0094.9	0095.3	0095.7	0096.2	0096.6	0097.1	0097.5	0097.9	0098.4	0098.8
01.50	0099.3	0099.7	0100.2	0100.6	0101.0	0101.5	0101.9	0102.4	0102.8	0103.2
01.60	0103.7	0104.1	0104.5	0105.0	0105.4	0105.9	0106.3	0106.7	0107.2	0107.6
01.70	0108,1	0108.5	0108.9	0109.4	0109.8	0110.3	0110.7	0111.1	0111.6	0112.0
01.80	0112.4	0112.9	0113.3	0113.8	011,4.2	0114.6	0115.1	0115.5	0115.9	0116,4
01.90	0116.8	0117.3	0117.7	0118.1	0118.6	0119.0	0119.4	0119.9	0120.3	0120,8
02.00	0121.2	0121.6	0122.1	0122.5	0122.9	0123.4	0123.8	0124.2	0124.7	0125.1
02.10	0125.6	0126.0	0126.4	0126.9	0127.3	0127.7	0128.2	0128.6	0129.0	0129.5
02.20	0129.9	0130.4	0130.8	0131.2	0131.7	0132.1	0132.5	0133.0	0133.4	0133.8
02.30	0134.3	0134.7	0135.1	0135.6	0136.0	0136.4	0136.9	0137.3	0137.7	0138.2
02.40	0138.6	0139.0	0139.5	0139.9	0140.4	0140.8	0141.2	0141.7	0142.1	0142.5
	-13-11	120311								
02.50	0143.0	0143.4	0143.8	0144.3	0144.7	0145.1	0145.6	0146.0	0146.4	0146.9
02.60	0147.3	0147 - 7	0148.2	0148.6	0149.0	0149.5	0149.9	0150.3	0150.8	0151.2
02.70	0151.6	0152.1	0152.5	0152.9	0153.4	0153.8	0154.2	0154.7	0155.1	0155.5
02.30	0156.0	0156.4	0156.8	0157.3	0157.7	0158.1	0158.6	0159.0	0159.4	0159.9
02.90	0160.3	0160.7	0161.2	0161.6	0162.0	0162.5	0162.9	0163.3	0163.7	0164.2
03.00	0164.6	0165.0	0165.5	0165.9	0166.3	0166.8	0167.2	0167.6	0168.1	0168.5
03.10	0168.9	0169.4	0169.8	0170.2	7.0710	0171.1	0171.5	0172.0	0172.4	0172.8
03.20	0173.3	0173.7	0174.1	0174.6	0175.0	0175.4	0175.9	0176.3	0176.7	0177.2
03.30	0177.6	0178.0	0178.4	0178.9	0179.3	0179.7	0180.2	0180.6	0181.0	0181.5
03.40	0181.9	0182.3	0182.8	0183.2	0183.6	0184.1	0184.5	0184.9	0185.4	0185.8
		2406 5		A 4 Oct . F	0188.0	0188.4	0188.8	0189.3	0189.7	0190.1
03.50	0186.2	0186.7 0191.0	0187.1	0187.5	0192.3	0192.7	0193.1	0193.6	0194.0	0194.4
03.60 03.70	0190.6	0191.0	0191.4	0196.2	0196.6	0197.0	0197.5	0197.9	0198.3	0198.8
03.80	0194.9	0199.6	0200.1	0200.5	0200.9	0201.4	0201.8	0202.2	0202.7	0203.1
-		0.4050	0200.1	0204.8	0205.3	0205.7	0205.1	0206.6	0207.0	0207.4
03.90	0203.5	0204.0	0204.4	0204.0	0205.5	0205.1	020041	.,, 00.0	0.1030	02014-1
04.00	0207.9	0208.3	0208.7	0209.2	0209.6	0210.0	0210.5	0210.9	0211.3	0211.8
04.10	0212.2	0212.6	0213.1	0213.5	0213.9	0214.4	0214.8	0215.2	0215.7	0216.1
04.20	0216.5	0217.0	0217.4	0217.8	0218.3	0218.7	0219.1	0219.6	0220.0	0220,4
04.30	0550.9	0221.3	0221.7	0222.2	0555*6	0223.0	0223.5	0223.9	0224.3	0224.8
04.40	0225.2	0225.6	0226.1	0226.5	0226.9	0227.4	0227.8	0558*5	0228.7	0229.1
0/1.50	0229.6	0230.0	0230.4	0530.9	0231.3	0231.7	0232.2	0232.6	0533.0	0233.5
04.60	0233.9	0234.3	0234.8	0235.2	0235.7	0236.1	0236.5	0237.0	0237.4	0237.8
04.70	0238.3	0238.7	0239.1	0239.6	02/10.0	0240.5	0240.9	0241.3	0541.8	0242.2
04.80	0242.6	0243.1	0243.5	0243.9	0244.4	0244.8	0245.3	0245.7	0246.1	0246.6
04.90	0247.0	0547.4	0247.9	0243.3	0248.8	0249.2	0249.6	0250.1	0250.5	0250•9

Temperature, OF

TABLE 2 CHROMEL-ALUMEL (Continued)

		1.4	DLL Z	CHRO		· ·	C 511111110	,		
							Refe	rence Ju	nction,	32 °F
Miliivolt	s .00	.01	.02	.03	.04	•05	• 06	.07	•08	.09
05.00	0251.4	0251.8	0252.3	0252.7	0253.1	0253,6	0254.0	0254.5	0254.9	0255.3
05.10	0255.8	0256.2	0256.7	0257.1	0257.5	0258.0	0258.4	0258.8	0259.3	0259.7
05.20	0260.2	0260.6	0261.0	0261.5	0261.9	0262.4	0262.8	0263.2	0263.7	0264.1
05.30	0264.6	0265.0	0265.5	0265.9	0266.3	0266.8	0267.2	0267.7	0265.1	0268.5
05.40	0269.0	0269.4	0269.9	0270.3	0270.7	0271.2	0271.6	0272.1	0272.5	0273.0
0)0	02.0540	02071	02.00.00	021043	021001	OLITEL	02.12.0	orir.**	02,217	02,510
05,50	0273.4	0273.8	0274.3	0274.7	0275.2	0275.6	0276.1	0276.5	0276.9	02/7.4
05,60	0277.8	0278.3	0278.7	-		0280.1	0280.5	0280.9	0281.4	0281.8
	0282.3	0282.7	02/3.7	0279.2	0279.6	0284.5	0284.9	0285.4	0285.8	0286.3
05.70				0283.6				0289.9	0290.3	0290.7
05,80	0286.7	0287.2	0287.6	0288.1	0288.5	0289.0	0289.4		-	
05.90	0291.2	0291.6	0292.1	0292.5	0293.0	0293.4	0293.9	0294.3	0294.8	0295.2
			06.0					0000 4	0000	0300.0
06.00	0295.7	0296.4	0296.9	0297.3	0297.8	0298 •2	0298.7	0299.1	0299.6	
06,10	0300.5	0300.9	0301.4	0301.8	0302.2	0302.7	0303.1	0303.6	0304.0	0304.5
06,20	0304.9	0305.4	0305.8	0306.3	0306.7	0307.2	0307.6	0308.1	0308.5	0309.0
06.30	0309.4	0309.9	0310.3	0310.8	0311.2	0311.7	0312.1	0312.6	0313.0	0313.5
06.40	0313.9	0314.4	0314.8	0315.3	0315.7	0316.2	0316.6	0317.1	0317.5	0318.0
06.50	0318.4	0318.9	0319.3	0319.8	0320.2	0320.7	0321.1	0321.6	0322.0	0322.5
06.60	0322.9	0323.4	0323.8	0324.3	0324.7	0325.2	0325.6	0326.1	0326.5	0327.0
06.70	0327.4	0327.9	0328.3	0328.8	0329.2	0329.7	0330.1	0330.6	0331.0	0331.5
06.80	0331.9	0332.4	0332.8	0333.3	0333.7	0334.2	0334.6	0335.1	0335.5	0336.0
06.90	0336.4	0336.9	0337.3	0337.8	0338.2	0338.7	0339.1	0339.6	0340.0	0340.5
07.00	0340.9	0341.4	0341.8	0342.3	0342.7	0343.2	0343.6	0344.1	0344.5	0345.0
07.10	0345.4	0345.9	0346.3	0346.8	0347.2	0347.7	0348.1	0348.6	0349.0	0349.5
07.20	0349.9	0350.4	0350.8	0351.3	0351.7	0352.2	0352.6	0353.1	0353.5	0354.0
07.30	0354.4	0354.9	0355.3	0355.8	0356.2	0356.7	0357.1	0357.6	0358.0	0358.5
07.40	0358.9	0359.4	0359.8	0360.3	0360.7	0361.2	0361.7	0362.1	0362.6	0363.0
0,1.0	035045	43324	033240	-5000	-50011	-5-2	-5-40.			
07.50	0363.5	0363.9	0364,4	0364.8	0365.3	0365.7	0366,2	0366.6	0367.1	0367.5
07.60	0368.0	0368.4	0368.9	0369.3	0369.8	0370.2	0370.7	0371.1	0371.6	0372.0
07.70	0372.5	0372.9	0373.4	0373.8	0374.3	0374.7	0375.1	0375.6	0376.1	0376.5
07.80	0376.9	0377.4	0377.8	0378.3	0378.7	0379.2	0379.6	0380.1	0380.5	0381.0
07.90	0381.4	0381.9	0382.3	0382.8	0383.2	0383.7	0384.1	0384.6	0385.0	0385.5
01.00	0,02	0,5-2.05	430443	-5	-5-5					
08.00	0385.9	0386.4	0386.8	0387.3	0387.7	0388.2	0388,6	0389.1	0389.5	0390.0
08.10	0390.4	0390.9	0391.3	0391.8	0392.2	0392.7	0393.1	0393.6	0394.0	0394.5
	0394.9	0395.4	0395.8	0396.3	0396.7	0397.2	0397.6	0398.1	0398.5	0399.0
08.20	0399.4	0399.9	0400.3	0400.8	0401.2	0401.7	0402.1	0402.6	0403.0	0403.5
08.30		0404.4	0404.8	0405.3	0405.7	0406.1	0406.6	0407.0	0407.5	0407.9
08.40	0403.9	0404.4	0404.0	040243	0405.1	040041	0400.0	0.01.0	01010	0.01.05
*0 =0	0408.4	0408.8	0409.3	0409.7	0410.2	0410.6	0411.1	0411.5	0412.0	0412.4
08.50				0409.7	0410.2	0415.1	0411.1	0416.0	0416.5	0416.9
08.60	0412.9	0413.3	0413.8				0420.0	0420.5	0420.9	0421.4
08.70	0417.4	0417.8	0418.2	0418.7	0419.1	0419.6			0425.4	0425.9
08.80	0421.8	0422.3	0422.7	0423.2	0423.6	0424.1	0424.5	0425.0	-	
08.90	0426.3	0426.7	0427.2	0427.6	0428.1	0428.5	0429.0	0429.4	0429.9	0430.3
								-1	atiali a	atrali 0
09.00	0430.8	0431.2	0431.7	0432.1	0432.6	0433.0	0433,4	0433.9	0434.3	
09.10	0435.2	0435.7	0436.1	0436.6	0437.0	0437 • 5	0437.9	0438.4	0438.8	
09.20	0439.7	0440.1	0440.6	0441.0	0!41.5	04419	0442.4	0442.8	0443.3	
09.30	0444.2	0444.6	0445.0	0445.5	0445•9	0446.4	0446.8	0447.3	0447.7	0448.2
09.40	0448.6	0449.0	0449.5	0449.9	0450.4	0450.8	0451.3	0451.7	0452.2	0452.6
09.50	0453 - 1.	0453.5	0453.9	0454.4	0454.8	0455•3	0455.7	0456.2	0456.6	
09.60	0457.5	0457.9	0458.4	0458.8	0459.3	0459.7	0460.2	0460,6	04610	0461.5
09.70	0461.9	0462.4	0462.8	0463.3	0463.7	0464.2	0464.6	0465.0	0465.5	0465.9
09.80	0466.4	0466.8	0467.3	0467.7	0468 . 1.	0468.6	0469.0	0469.5	0469.9	0470.4
09.90	0470.8	04712	0471.7	0472.1	0472.6	0473.0	0473.5	0473.9	0474.3	0474.8
-2.54						ture. Of				

Temperature, °F

TABLE 2 CHROMEL-ALUMEL (Continued)

		• • •				(Def	enenae J	unction,	32 °F
Millivolts	,00	.01	.0;	.03	.01-	.05	•06	•07	.0.:	.09
10.00	3475.2	0475.7	0476.1	0470.5	0477.6	04:77.4	0477.9	0473	0478.0	0479.2
10.10	0479.0	0400.1	č.0540	0431.0	0431.4	0431.3	0432.3	0482.7	0433.2	0433.6
10,20	0434.0	0484.5	0484.9	0485.4	0435.8	0456.2	0486.7	0437.1	0437.6	0488.0
10.30	0483.5	0483.9	0439.3	0439.0	0490.2	0490.5	0491.1	0491.5	0492.0	0492.4
10,40	0492.8	0493.3	0493.7	0494.2	0494.6	0495.0	0495.5	0495.9	0496.4	0496.8
10.50	0497.2	0497.7	0/198.1	0493.6	0499.0	04.39.4	0499.9	0500.3	0500.7	0501.2
10.60	0501.6	0502.1	0502.5	0502.9	0503.4	0503.8	0504.3	0504.7	0505.1	0505.6
10.70	0506.0	0505.4	0506.9	0507.3	0507.8	0503.2	0503.6	0509.1	0509.5	0509.9
10.80	0510.4	0510.8	0511.2	0511.7	0512.1	0512.6	0513.0	0513.4	0513.9	0514.3
10.90	0514.7	0515.2	0515.6	0516.0	0516.5	0516.9	0517.4	0517.8	0518.2	0518.7
11.00	0519.1	0519.5	0520.0	0520.4	0520.8	0521.3	0521.7	0522.1	0522.6	0523.0
11.10	0523.4	0523.9	0524.3	0524.7	0525.2	0525.6	0526.0	0526.5	0526.9	0527.3
11.20	0527.8	0529.1	0528.6	0529.0	0529.4	0529.9	0530.3	0530.7	0531.2	0531.6
11.30	0532.0	0532+5	0532.9	0533.3	0533.8	0534.2	0534.7	0535.1	0535.5	0536.0
11.40	0536.4	0536.3	0537.3	0537.7	0538.1	0538.6	0539.0	0539.4	0539.9	0540.3
11.50	0540.8	0541.2	0541.6	0542.1	0542.5	0542.9	0543.4	0543.8	0544.2	0544.7
11.60	0545.1	0545.5	0546.0	0546.4	0546.8	0547.3	0547.7	0548.1	0548.6	0549.0
11.70	0549.5	0549.9	0550.3	0550.8	0551.2	0551.6	0552.1	0552.5	0552.9	0553.4
11.80	0553.0	0554.2	0554.7	0555.1	0555.5	0556.0	0556.4	0556.8	0557.3	0557.7
11.90	0558.1	0558,6	0559.0	0559.4	0559.9	0560.3	0560.7	0561.2	0561.6	0562.1
12.00	0562.5	0562.9	0563.4	0563.8	0564.2	0564.7	0565.1	0565.5	0566.0	0566.4
12.10	0566.8	0567.3	0567.7	0568.1	0568.6	0569.0	0569.4	0569.9	0570.3	0570.7
12.20	0501.2	3571.6	0572.0	0572.5	0572.9	0573.3	0573.8	0574.2	0374.6	0575.1
12.30	0575.5	0575.9	0576.4	0576.0	0577.2	0577.7	0573.1	0578.5	0579.0	0579.4
12.40	0579.8	0530.3	0580.7	0501.1	0531.0	0582.0	0538.4	0582.9	0583.3	0583.7
3,1.0.10	·) / · · ·	->		-,	-,,			-,0-1-15	-3-3-3	-35•1
	01 -		a=():: a	0::05 1	0020 0	ni 96. p	0.05.3	0587.2	05.7.6	3.1 (1
12.50	058h.2	0534.6	0585.0	0585.5	0535.9	0586.3	0505.3 0591.1	0591.5	0592.0	0592.4
12.60	0538.5	0586.9	0589.4	0589.8	0590.2	0535.0	2595.4	0595.9	0596.3	0596.7
12.70	0592.8	0593.3	0593.7	059h 1	0598.9	0599 • 3	0599.7	0600.2	0600.6	0601.0
12.80	0597.2	0597.6	0598.0	0599.4 0602.8	0603.2	0603.6	1.4690	0601.5	0604.9	0605.4
12.90	0601.5	0601.9	0007. • 3	0007.40	0000311	0005.5	000.,2	,		
13.00	0605,8	0606.2	0606.7	0607.1	0607.5	0605.0	9508.4	0608.5	0609.3	0609.7
13.10	0610.1	0610.5	0611.0	0611.4	0611.3	0612.3	0612.7	0613.1	0613.6	0634.0
13.20	2614.4	0614.9	0615.3	0615.7	0616.2	9616.6	0617.0	0617.5	0617.9	0618.3
13.30	0618.8	0619.2	0019.6	0.020.0	0620.5	0620.9	0621.3	0621.3	0622.2	06;2.6
13.40	0623.1	0623.5	0623.9	0604.h	8.4560	0625.0	0625.7	0626.1	0626.5	0.1500
	-									
13.50	0627.4	8,7520	0628.2	0628.7	0689•1	0629.5	0630.0	0630.4	0630.8	0631.3
13.60	0631.7	0632.1	0632.6	0633.0	0633.4	0633.3	0634.3	0634.7	0635.1	ი635.6
13.70	0636.0	0636.4	0636.9	0637 • 3	0637.7	0638.2	0638.6	0639.0	0639.4	0639.9
13.80	0640.3	0640.7	0641.2	0041.6	0.3450	0646.5	0648.9	0643.3	0643.3	0644.3
13.90	0644.6	0645.0	9645.5	och5.9	06h6.3	0 640.3	0647 •1:	0047.6	0.40.1	ochu.5
									ndia h	
14.00	0643.9	0649.3	0649.3	0(50.8	0650.0	0051.1	0051.5	0051.7	0655.4	0057.4
14.10	0053.0	0053.7	0054.1	رندارده	0650.7	0055.4	0055.5	00550.j	0.55. .7 0.53. . 0	0051.h
14.20	0557.5	0650	0653.4	0056	0057.6	0.55.7 0.35.0	96.5.4 96.4.4	00.50*;	000a.0	0001.7
15.30	0661.	0.0.3	2000	0003-4	00.3.5	0(41),0	9000 . 7	000.001.	9692.9	0.70.0
14.40	9666-1	9/36/6.5	0.77.0	3601 ·	9Y	%	J'3", •{	Jes Call	30.73.0	74444
44 ~ ~	0070.4	0670.8	0671.3	0071.7	9678.1	9578.0	0073.0	9673.5	5575.0	067F.3
14.50 14.60	9674.7	0675.1	0675.0	0576.0	0676.4	9675.3	0677.3	9:77.7	0675.1	0075.6
14.60	0679.0	0675.4	0679.0	0010.3	050.0.7	9681.1	0011.0	0602.0	0608.4	0582.2
14.30	0603.3	0633.7	067.1	0674.5	0.75.0	5005.A	901%.5	or 1.3	06.16.7	2017.1
18.00	96.7.0	or o	50 .h	5	9	2	9.79.	9 20.7	20.2.2	9.71.6
2.1.70	2.1.0	• • •	• •			9 k				

Temperature, OF

TABLE 2 CHROMEL-ALUMEL (Continued)

		IAL	SLE Z	CHRUM	E L-A LI	JWET" (ontinue	₽d)		
							Refe	erence Ju	inction,	35 ° F
Millivolt	00.8	.01	•00	•03	• O!+	.05	٠٥٠	.07	.00	.09
15.00	0601.9	0692.3	0692.7	0693.0	0693.6	0.54.0	0694.4	0694.9	0695.3	0695.7
15.10	0696.2	0696,6	0697.0	9697.4	0697.9	0693.3	0698.7	0699.2	0699.6	0700.0
15.20	0700.4	0700.9	0701.3	0701.7	0702.2	0702.6	0703.0	0703.4	0703.9	0704.3
15.30	0704.7	0705.1	0705.6	0706.0	0706.4	0706.9	0707.3	0707.7	0708.1	0708.6
15.40	0709.0	0709.4	0709.9	0710.3	0710.7	0711.1	0711.6	0712.0	0712.4	0712.9
							·			- (
15.50	0713.3	0713.7	0714.1	0714.6	0715.0	0/15.4	0715.8	0716.3	0716.7	0717.1
15.60	0717.6	0718.0	0718.4	0713.8	0719.3	0719.7	0720.1	0720.6	0721.0	0721.4
15.70	0721.3	0722.3	0722.7	0723.1	0723.5	0724.0	0724.4	0724.8	0725.3	0725.7
15.80	0726.1	0726.5	0727.0	0/27.4	0727.8	0728.2	0728.7	0729.1	0729.5	0730.0
15.90	0730.4	0730.8	0731.2	0731.7	0732.1	0732.5	0733.0	0733.4	0733.8	0734.2
2,000	015011	0,500	0132.5	0127.1	0135.1	0132.0	0133.0	0122.4	013340	013412
16.00	0734.7	0735.1	0735+5	0735.9	0736.4	0736.8	0737.2	0727 6	0770 4	orran e
16.10	0738.9	0739.4	0739+0	0740.8	0740.6	0730.0		0737.6	0738.1	0738.5
16.20	0743.2	0743.6			-	-	0741.5	0741.9	0742.3	0742.8
			0744.1	07/14.5	0744.9	0745.3	0745.8	0746.2	0746.6	0747.0
16.30	0747.5	0747.9	0748.3	0743.8	0749.2	0749.6	0750.0	0750.5	0750.9	0751.3
16.40	0751.7	0752.2	0752.6	0753.0	0753.4	0753.9	0754.3	0754.7	0755.2	0755.6
16.50	0756.0	0756.4	0756.9	0757.3	0757.7	0753.1	0758.6	0759.0	0759.4	0759.8
16.60	0760.3	0760.7	0761.1	0761.5	0768.0	0762.4	0762.8	0763.3	0763.7	0764.1
16.70	0764.5	0765.0	0765.4	0765.8	0766.2	0766.7	0767.1	0767.5	0767.9	0768.4
16.80	0768.8	0769.2	0769.6	0770.1	0770.5	0770.9	0771.4	0771.8	0772.2	0772.6
16.90	0773.1	0773.5	0773.9	0774.3	0774.8	0775.2	0775.6	0776.0	0776.5	0776.9
17.00	0777.3	0777.7	0778.2	0778.6	0779.0	0779.4	0779.9	0780.3	0780.7	0781.2
17.10	0781.6	0782.0	0732.4	0782.9	0783.3	0783.7	0784.1	0784.6	0785.0	0785.4
17.20	0785.8	0786.3	0736.7	1.7670	0787.5	0,8870	0788.4	0788.8	0789.2	0789.7
17.30	0790.1	0790.5	0790.9	0791.4	0791.8	0792.2	0792.6	0793.1	0793.5	0793.9
17.40	0794.3	0794.8	0795.2	0795.6	0796.0	0796.5	0796.9	0797.3	0797.7	0798.2
17.50	0798.6	0799.0	0700 (0799.9	0800.3	0800.7	0801.2	0801.6	0802.0	off on the
	0802.9		0799.5		0804.6	-				4.5080
17.60		0803.3	0803.7	0804.1		0805.0	0805.4	0805.8	0806.3	0306.7
17.70	0807.1	0807.5	0.8080	4.8080	0808.8	0309.2	0809.7	0810.1	0810.5	0810.9
17.80	0811.4	0811.8	0812.2	0812.6	0813.1	0813.5	0813.9	0814.3	0814.8	0815.2
17.90	0815.6	0816.0	0815.5	0816.9	0817.3	0817.7	0818.2	0818.6	0819.0	0819.4
		_	_							
18.00	0819.9	0820.3	0820.7	0321.1	0821.6	0822.0	0822.4	0855*8	0823.3	0823.7
18.10	0824.1	0824.5	0825.0	0825.4	0825.8	0826.2	0826.7	0827.1	0827.5	0827.9
18.20	0828.4	0328.8	0829.2	0829.6	0830.1	0830.5	0830.9	0831.3	0831.7	0832.2
18.30	0832.6	0833.0	0833.4	0333.9	0834.3	0834.7	0835.1	0835.6	0836.0	0836.4
18.40	0836.8	0837.3	0837.7	0838.1	0838.5	0839.0	0839.4	0839.8	0840.2	0840.7
18.50	0841.1	0841,5	0841.9	0842.4	0842.8	0343.2	0843.6	0844.1	0844.5	0844.9
18.60	0845.3	0845.8	0846.5	0846.6	0847.0	0847.5	0847.9	0848.3	0848.7	0849.1
18.70	0849.6	0850.0	0850.4	0850.8	0851.3	0851.7	0852.1	0852.5	0853.0	0853.4
18.80	0853.8	0854.2	0854.7	0855.1	0855.5	0855.9	0856.4	0856.8	0857.2	0857.6
18.90	0858.1	0858.5	0858.9	0859.3	0359.8	0360.2	0860.6	0361.0	0861.4	0861.9
19.00	0862.3	0862 . 7	0863.1	0863.6	0864.0	0364.4	0864.8	0865.3	0865.7	0866.1
19.10	0866.5	0867.0	0867.4	0867.8	0368.2	0368.7	0869.1	0869.5	0869.9	0870.4
19.20	0870,8	0871.2	0871.6	0972.0	0872.5	0872.9	0873.3	0873.7	0874.2	0874.6
19.30	0875.0	0875.4	0875.9	0876.3	0876.7	0877.1	0877.6	0878.C	0878.4	0878.8
19.40	0879.3	0879.7	0880.1	0880.5	0880.9	0381.4	8.1880	0882.2	3882.6	0383.1.
	_	•		•						2
19.50	0883.5	0333.9	0284,3	5.4380	0885.2	0885.6	0.3880	0836.5	0886.9	0387.3
19.60	0337.7	0383.1	0888,6	0339.0	0289.4	0889.8	0890.3	0390.7	0391.1	0391.5
19.70	0892.0	0892.4	0392.8	0893.2	0593.7	0394.1	0894.5	0894.9	9895.3	0395.8
19.60	0396,2	0896.6	Uny/.0	0007.5	0397.9	0000.3	0890.7	0399.5	0839.6	0900.0
19.90	0200.4	0900.8	9991.3	0001.7	0902.1	0902.5	0903.0	0903.4	0903.8	0201.2
		,		_		0.,	,	- /		. ,

TABLE 2 CHROMEL-ALUMEL (Continued)

							B	eference	Junetic	n, 32 °F
Millivolt	s .00	.01	•02	.03	•OI;	.05	.00	.07	.03	.0)
90.00	0.70%.7	0905.1	0905.5	0905.9	0900.4	0906.5	0907.2	0907.6	0,000	0900.5
20.10	6.0060	3.600	2,6060	8,020	0910.6	0911.0	0911.4	0911.9	0912.3	0912.7
50.50	0913.1	0913.5	0914.0	0514,4;	0,14.0	0)15.2	0915.7	0916.1	0920.5	0916.9
20.30	0917.4	0917.0	0910.2	0.11.0	0.(110	0919.5	0,414.9	0,20.3	0920.7	0921.2
20.40	0921.6	0920.0	0.925.4	0925.9	0923.3	0923.7	0924.1	0924.5	0925.0	0925.4
20.50	0925.3	0926.2	0:06.0	A 1/17		2004 0	anen k	4250.0	*****	****
20.60	0930.0	0930.5	0926.7	0,927.1	0927.5	0927.9	0928.4	8.8260	0929.2	9.6560
20.70	0934.3	0934.7	0930.9	0931.3	0931.7	0932.2	0932.6	0933.0	0933.4	0933.9
20.00	0938.5	0938.9	0935.1	0935.5 0939.8	0936.0	0936.4	0936.8	0937.2	0937.7	0938.1
20.90	0942.7	0938.9	0939.3	0939.6	0940.2 0944.4	0940.6 0944.8	0941.0	0941.5	0941.9	0942.3
20.70	0942.1	0543.6	0943.0	0944.0	0944.4	0944.6	0945.3	0945.7	0946.1	0946.5
21.00	0947.C	0947.4	0947.3	0943.2	0948.6	0949.1	0949.5	0949.9	0950.3	0950.8
21.10	0951.2	0951.6	0952.0	0952.5	0952.9	0953.3	0953.7	0954.1	0954.6	0955.0
21.20	0955.4	0955.3	0956.3	0956.7	0957.1	0957.5	0957.9	0958.4	0958.8	0959.2
21.30	0959.6	0960.1	0960.5	0960.9	0961.3	0961.3	0962.2	0962.6	0963.0	0963.4
21.40	0963.9	0964.3	0964.7	0965.1	0965.6	0966,0	0966.4	8,3960	0967.2	0967.7
21.50	0968.1	0963.5	0968.9	0969.4	0969.8	0970.2	0970.6	0971.0	0971.5	0971.9
21.60	0972.3	0972.7	0973.2	0973.6	0974.0	0974.4	0974.9	0975.3	0975.7	0976.1
21.70	0976.5	0977.0	0977.4	0977.8	0978.2	c973.7	0979.1	0979.5	0979.9	0980.3
21.80	0980.3	0981.2	0981.6	0932.0	0982.5	0902.9	0983.3	0983.7	0984.1	0984.6
21.90	0985.0	0985.4	0985.3	0986.3	0986.7	0987.1	0987.5	0987.9	0988.4	0988.8
22.00	0989.2	0939.6	0990.1	0990.5	0990.9	0991,3	0991.7	0992.2	0392.8	0993.0
22.10	0993.4	0993.9	0994.3	0994.7	0995.1	0995.6	3996.0	0996.4	0996.8	0997.2
22.20	0997.7	0998.1	0998.5	0998.9	0999.4	0999.8	1000.2	1000.6	1001.0	1001.5
22.30	1001.9	1002.3	1002.7	1003.2	1003.6	1004.0	1004.4	1004.8	1005.3	1005.7
22.40	1006.1	1006.5	1007.0	1007.4	1007.3	1008.2	1008.6	1009.1	1009.5	1009.9
22.50	1010.3	1010.8	4044.0	4044 6	1010.0	anao li	4040 0	4042.2	4040.46	anali .
22,60			1011.2	1011.6	1012.0	1012.4	1012.9	1013.3	1013.7	1014.1
22.70	1014.6	1015.0	1015.4	1015.8	1016.2	1016.7	1017.1	1017.5	1017.9	1018.4
22.80	1018.8	1019.2	1019.6	1020-0	1020.5	1020.9	1021.3	1021.7	1022.2	1022.6
22.90	1023.0	1023.4	1023.8	1024.3	1024.7 1023.9	1025.1	1025.5	1026.0	1026.4	1026.8 1031.0
22170	1021.2	1027.0	1020.1	1050.2	1050.3	1053.3	1059.0	1030.2	1030.6	1031.0
23.00	1031.4	1031.9	1032.3	1032.7	1033.1	1033.6	1034.0	1034.4	1034.8	1035.2
23.10	1035.7	1036.1	1036.5	1036.9	1037.4	1037.8	1033.2	1038.6	1039.0	1039.5
23.20	1039.9	1040.3	101:0.7	1041.2	1041.6	1042.0	1042.4	1042.8	1043.3	1043.7
23.30	1044.1	1044.5	1045.0	1045.4	1945.8	1046.2	1046.6	1047.1	1047.5	1047.9
23.40	1048.3	1043.8	1049.2	1049.6	1050.0	1050.4	1050.9	1051.3	1051.7	1052.1
23,50	1052,6	1053.0	1053.4	1053.3	1054.2	1054.7	1055.1	1055.5	1055.9	1056,4
23,60	1056.8	1057.2	1057.6	1053.0	1058.5	1058.9	1059.3	1059.7	1060.2	1060,6
23,79	1961.0	1061.4	1051.8	1062.3	1062.7	1063.1	1063.5	1,064.0	1064.4	1064.8
23,80	1065.2	1065.6	1065.1	1066.5	1066.9	1007.3	1067 .8	1068,2	1068,6	1059.0
23.90	1069.4	1069.9	1070.3	1070.7	1071.1	1071.6	1072.0	1072,4	1072,8	1073.2
-1				-1						
24.00	1073.7	1074.1	1074.5	1074.9	1.075.4	1075.8	1076.2	1076,6	1.077.1	1077.5
24.10	1077.9	1078.3	1078.7	1079.2	1079.6	1030.0	1080.4	1080.9	1031.3	1031.7
24.20	1032.1	1082.5	1093.0	1083.4	1083.8	1034.2	1034.7	1035.1	1085.5	1035.9
24.30	1036.3	1096.8	1037 - 2	1087.6	1098.0	1038.5	1033.9	1039.3	1039.7	1090.1
C4.4S	1090.6	1091.0	1001.4	1021.5	1092.3	1008.7	10)3.1	1093.5	1093.9	1004.4
24.50	1094.0	1005.2	1095.6	1096.1	1096.5	1096.9	1077.3	1.077.7	1090.2	1.995.6
54.60	1099.0	1022.4	1099.7	1100.3	1100.7	1101.1	1101.5	1.102.0	1102.4	1102.5
24.70	1103.8	1103.7	110/: •1	1104.5	1104.9	1105.3	1105.8	1106,2	1106.6	11.07.0
24.30	1107.5	1107.)	1103.3	1197.7	1109.2	1109.6	1110.0	1110.4	1119.3	1111.3
24.90	1111.7	1112.1	1,117.5	1113.0	1113.4	1115.	1118.7	1114.6	1115.1	1115.5
				Ten	perature	, °F				

TABLE 2 CHROMEL-ALUMEL (Continued)

		! A	DLE Z	CHRON	IL L-AL	OMEL (
							Ref	erence J	unction,	32 ° F
M1111volt	B .00	.01.	•02	.03	.04	.05	•06	.07	.03	.09
25.00	1115.9	1116.3	1116.8	1117.2	1117.6	1118.0	1118.4	1118.9	1119.3	1119.7
25.10	1120.1	1120.6	1121.0	1121.4	1121.8	1122.2	1122.7	1123.1	1123.5	1123.9
25,20	1124.4	1124.8	1125.2	1125.6	1126.1	1126.5	1126.9	1127.3	1127.7	1128.2
25.30	1129.6	1129.0	1129.4	1129.9	1130.3	1130.7	1131.1	1131.5	1132.0	1132.4
	1132.8									1136.6
25.40	1175.0	1133.2	1133.7	1134.1	1134.5	1134.9	1135.4	1135.8	1136.2	1130.0
05.50	4400 0	4.00	4475 0						ho h	
25.50	1137.0	1137.5	1137.9	1138.3	1138.7	1139.2	1139.6	1140.0	1140.4	
25.60	1141.3	1141.7	1142.1	1142.5	1143.0	1143.4	1143.8	1144.2	1.144.7	1145.1
25.70	1145.5	1145.9	1146.3	1146.8	1147.2	1147.6	1148.0	1148.5	1148.9	1149.3
25.80	1149.7	1150.1	1153.6	1151.0	1151.4	1151.8	1152.3	1152.7		1153.5
25.90	1154.0	1154.4	1154.8	1155.2	1155.6	1156.1	1156.5	1156.9	1157.3	1157.8
26.00	1158.2	1158.6	1159.0	1159.5	1159.9	1160.3	1160.7	1161.1	1161.6	1162.0
26.10	1162.4	1162.8	1163.3	1163.7	1164.1	1164.5	1164.9	1165.4	1165.8	1166.2
26.20	1166.6	1167.1	1167.5	1167.9	1168.3	1168.8	1169.2	1169.6	1170.0	1170.4
26.30	1170.9	1171.3	1171.7	1.172.1	1172.6	1173.0	1173.4	1173.8	1174.3	1174.7
26.40	1175.1	1175.5	1175.9	1176.4	1176.8	1177.2	1177.6	1178.1	1178.5	1178.9
26.50	1179.3	1179.8	1180.2	1180.6	1181.0	1181.4	1181.9	1182.3	1182.7	1183.1
26.60	1183.6	1184.0	1184.4	1184.8	1185.3	1185.7	1186.1	1186.5	1187.0	1187.4
26.70	1187.8	1188.2	1188.6	1139.1	1189.5	1189.9	1190.3	1190.8	1191.2	1191.6
26.80	1192.0	1192.5	1192.9	1193.3	1193.7	1194.1	1194.6	1195.0	1195.4	1195.8
26.90	1196.3	1196.7	1197.1	1197.5	11.98.0	1198.4	1198.8	1199.2	1199.7	1200.1
27.00	1200.5	1200.9	1201.3	1201.8	1202.2	1202,6	1203.0	1203.5	1203.9	1204.3
27.10	1264.7	1205.2	1205.6	1206.0	1206.4	1206.9	1207.3	1207.7	1208.1	1208.5
27.20	1209.0	1209.4	1209.8	1210.2	1210.7	1211.1	1211.5	1211.9	1212.4	1212.8
27.30	1213.2	1213.6	1214.1	1214.5	1214.9	1215.3	1215.8	1216.2	1216.6	1217.0
27.40	1217.4	1217.9	1218.3	1218.7	1219.1	1219.6	1220.0	1220.4	1220.8	1221.3
2,.,0	2021	acz, vy	2010	20201		11.1.740	22.000		2000	20020
27.50	1221.7	1222.1	1222.5	1223.0	1223.4	1223.8	1224.2	1224.7	1225.1	1225.5
27.60	1225.9	1226.3	1226.8	1227.2	1227.6	1228.0	1228.5	1228,9	1.229.3	1229.7
27.70	1230.2	1230.6	1231.0	1231.4	1231.9	1232.3	1233.0	1233.4	1233.8	1234.3
27.80	1234.7	1235 • 1	1235.5	1236.0	1236.4	1236.3	1237.3	1237.7	1238.1	1238.5
27.90	1239.0	1239.4	1239.8	1240.2	1240.7	1241.1	1241.5	1241.9	1242.4	1242.8
28.00	1243.2	1243.7	1244.1	1244.5	1244.9	1245.4	1245.8	1246.2	1246.6	1247.1
28,10	1247.5	1247.9	1248.4	1248.8	1249.2	1249.6	1250.1	1250.5	1250.9	1251.3
29.20	1251.8	1252.2	1252.6	1253.0	1253.5	1253.9	1254.3	1254.8	1255.2	1255.6
28.30	1256.0	1256.5	1256.9	1257.3	1257.7	1258.2	1258.6	1259.0	1259.5	1259.9
28.40	1260.3	1260.7	1261.2	1261.6	1262.0	1262.4	1262.9	1263.3	1263.7	1260.2
									- '	
28.50	1264.6	1265.0	1265.4	1265.9	1266.3	1266.7	1267.2	1267.6	1268.0	1268.4
28.60	1268.9	1269.3	1269.7	1270.1	1270.6	1271.0	1271.4	1271.9	1272.3	1272.7
28.70	1273.1	1273.6	1274.0	1274.4	1274.9	1275.3	1275.7	1276.1	1276.6	1277.0
28.80	1277.4	1277.9	1278.3	1278.7	1279.1	1279.6	1280.0	1280.4	1280.8	1281.3
28.90	1281.7	1282.1	1282.6	1283.0	1283.4	1283.8	1284.3	1284.7	1285.1	1285.6
29.00	1.286.0	1286.4	1286.8	1287.3	1287.7	1288.1	1283.6	1289.0	1289.4	1289.8
29.10	1290.3	1290.7	1291.1	1291.6	1292.0	1292.4	1292.8	1293.3	1293.7	1294.1
29.20	1294.6	1295.0	1295.4	1295.8	1296.3	1296.7	1297.1	1297.6	1298.0	1298.4
29.30	1298.9	1299.3	1299.7	1300.1	1300.6	1301.0	1301.4	1301.9	1302.3	1302.7
29.40	1303.1	1303.6	1304.0	1304.4	1304.9	1305.3	1305.7	1306.1	-	1307.0
29.50	1307.4	1307.9	1,308 • 3	1308.7	1309.2	1309.6	1310.0	1310.4	1310.9	1311.3
29.60	1311.7	1312.2	1312.6	1313.0	1313.5	1313.9	1314.3	1314.7	1315.2	1315.6
29.70	1316.0	1316.5	1316.9	1317.3	1317.7	1318.2	1318.6	1319.0	1319.5	1319.9
29.80	1320.3	1320.8	1321.2	1.321.6	1322.0	1,522.5	1322.9	1323.3	1323.8	1324.2
29.90	1324.6	1325.1	1325.5	1325.9	1386.3	1326.8	1327.2	1327.6	1328.1	1323.5
					mperatu			J		
				13	wher.gran	, r				

TABLE 2 CHROMEL-ALUMEL (Continued)

						(Refe	erence Ju	inction.	32 ^e F
Millivolta	.00	.01	•02	.03	. Oİ1	.05	•0ů	.07	.03	.09
30.00	1323.9	1329.4	1389.0	1330.2	1330.7	1331.1	1331.5	1331-9	1332.4	1332.8
30.10	1333.2	1333.7	1334.1	1334.5	1335.0	1335.4	1335.6	1336.3	1330.7	1337.1
30,20	1337.5	1333.0	1330.4	1330.3	1339.3	1339.7	1340.1	1340.6	1341.0	1341.4
30.30	1341.9	1342.3	1342.7	1343.1	1343.6	1344.0	1344.4	1344.9	1345.3	1345.7
30.40	1346.2	13/16.6	13/17.0	1347.5	1347.9	1348.3	1348.8	1349.2	1349.6	1350.0
_	-						-			
30.50	1350.5	1350.9	1351.3	1351.8	1352.2	1352.6	1353.1	1353.5	1353.9	1354.4
30.60	13.+.8	1355.2	1355.7	1356.1	1356.5	1357.0	1357.4	1357.8	1358.2	1358.7
30.70	1359.1	1359.5	1360.0	1360.4	1360.8	1361.3	1361.7	1362.1	1362.6	1363.0
30.80	1363.4	1363.9	1364.3	1364.7	1365.2	1365.6	1366.0	1366.5	1366.9	1367.3
30.90	1.367.8	1368.2	1368.6	1369.0	1369.5	1369.9	1370.3	1370.8	1371.2	1371.6
301311	3.501 00	1,0001	230040	2,50,.0	2002.07	2307.7	25,005	13,000	131 141	251210
31,00	1372.1	1372.5	1372.9	1373.4	1373.8	1374.2	1374.7	1375.1	1375.5	1376.0
31.10	1376.4	1376.8	1377 - 3	1377 7	1378.1	1378.6	1379.0	1379.4	1379.9	1380.3
31.20	1380.7	1381.2	1381.6	1382.0	1382.5	1382.9	1383.3	1383.8	1384.2	1384.6
31.30	1385.1	1385.5	1335.9	1386.4	1386.8	1387.2	1.337 . 7	1388.1	1388.5	1389.0
31.40	1389.4	1389.3	1390.3	1390.7	1391.1	1391.6	1392.0	1392.4	1392.9	1393.3
		-5				-51	-5			
31.50	1393.7	1394.2	1394.6	1395.0	1395.5	1395.9	1395.3	1396.8	1397.2	1397.6
31.60	1398.1	1393.5	1393.9	1399.4	1399.8	1400.2	1400.7	1401.1	1401.5	1402.0
31.70	1402.4	1402.8	1403.3	1403.7	1404.1	1404.5	1405.0	1405.4	1405.9	1406.3
31.80	1406.7	1407.2	1407.6	1408.0	1408.5	1403.9	1409.3	1409.8	1410.2	1410.6
31.90	1411.1	1411.5	1412.0	1412.4	1412.3	1413.3	1413.7	1414.1	1414.6	1415.0
32.00	1415.4	1415.9	1416.3	1416.7	1417.2	1417.6	1418.0	1418.5	1418.9	1/19.3
32.10	1419.8	1420.2	1420.6	1421.1	1/121.5	1/122.0	1422.4	1422.8	1423.3	1423.7
32.20	1424.1	1424.6	1425.0	1425.4	1425.9	1426.3	1426.7	1427.2	1427.6	1428.0
32.30	1428.5	1428.9	1429.3	1429.8	1430.2	1430.7	1431.1	1431.5	1432.0	1432.4
32.40	1432.8	1433.3	1433.7	1434.1	1434.6	1435.0	1435.4	1435.9	1436.3	1436.8
32.50	1437.2	1437.6	1438.1	1438.5	1438.9	1439.4	1439.8	1440.2	1440.7	1441.1
32.60	1441.5	1442.0	1442."	1442.9	1443.3	1443.7	1444.2	1444.6	1445.0	1445.5
32.70	1445.9	1446.3	1446.8	1447.2	1447.7	1448.1	1448.5	1449.0	1449.4	1449.8
32.80	1450.3	1450.7	1451.1	1451.6	1452.0	1452.5	1452.9	1453.3	1453.8	1454.2
32.90	1454.6	1455.1	1455.5	1455.9	1456.4	1456.8	1/157.3	1457.7	1458.1	1453.6
J	2.7.0	1.7511	2.00.0	21,0000	1-700-4	1.10000	2171.0	#47f+1	11,0011	T-10.0
33.00	1459.0	1459.4	1459.9	1460.3	1460.8	1/161.2	1461.6	1462.1	1/162.5	1462.9
33.10	1463.4	1463.8	1464.3	1464.7	1465.1	1465.6	1466.0	1466.4	1466.9	1/167.3
33.20	1467.8	1468.2	1468.6	1469.1	1469.5	1469.9	1470.4	1470.3	1471.3	1471.7
33.30	1472.1	1472.6	1473.0	1473.4	1473.9	1474.3	1474.8	1475.2	1475.6	1476.1
33.40	1476.5	1476.9	1477.4	1477.8	1478.3	1478.7	1479.1	1479.6	1430.0	1480.4
		, -	• • • •							
33.50	1480.9	1481.3	1481.8	1432.2	1462.6	1483.1	1483.5	1484.0	1484.4	1484.3
33.60	1485.3	1435.7	1436.1	1436.6	1437.0	1/187.5	1487.9	1438.3	1/188.8	1489.2
33.70	1489.7	1490.1	1490.5	1491.0	1491.4	1491.9	1492.3	1492.7	1493.2	1493.6
33.80	1494.0	1494.5	1494.9	1495.4	1495.8	1496.2	1496.7	1497.1	1/197.6	1498.0
33.90	1493.4	1493.9	1499.3	1499.8	1500.2	1500.6	1501.1	1501.5	1501.9	1502.4
34.00	1502.3	1503.3	1503.7	1504.1	1504.6	1505.0	1505.5	1505.9	1506.3	1506.8
34.10	1507.2	1507.7	1503.1	1503.5	1509.0	1509.4	1509.9	1510.3	1510.7	1511.2
34.20	1511.6	1512.1	1512.5	1512.9	1513.4	1513.8	1514.3	1514.7	1515.1	1515.6
34.30	1516.0	1516.5	1515.9	1517.3	1517.8	1548.2	1510.7	1519.1	1519.5	1520.0
34.40	1520.4	1520.9	1521.3	1521.7	1522.2	1522.6	1523.1	1523.5	1524.0	1,524.4
										•
34.50	1524.8	1525.3	1585.7	1526.2	1506.6	1524.0	1507.5	1527.9	1582.4	1,383.1
34.60	1529.	15 -7	hoda.	. , 1, 1		1551.4	1531.5	1534.43	1530.3	1533.8
34.70	1533.7	153/1.1	1534.5	1535.0	1535.4	1535.9	1534.3	1536.7	1537.2	1537.6
34.00	1536.1	1539.5	1550.0	1537.4	1.535 - 3	3.0الو1	1540.7	15/01.0	15/11.00	1561.0
34.90	1548.5	1550.7	4543.h	15/3	1505.3	1501.7	10/04	15/15-	1025 .O	15-6.5
				Tempe	rature,	o _F				

Temperature, OF

TABLE 2 CHROMEL-ALUMEL (Continued)

		IAB	LE Z C	HROME	L-ALUN	IEL (Co	ntinued)		
							5	Reference	Tuy abba	- 20 OB
	.00	.01	.62	.03	.04	.05	.05	.07	•08	n, 32 °F .09
Millivolt 35.00	ງ . 00 1540.9			-		1549.1				
35.10	1551.3				1553.1	1553.5				
35.20	1555.6									
35.30	1560.2				1557.5	1558.0				
35.40			-			1562.4				
37.40	1564.6	1565.1	1505.5	1565.9	1566.4	1566.8	1567.3	1567.7	1568.2	1568.6
35.50	1569.0	1569.5	1569.9	1570.4	1570.8	1571.3	1571.7	1572.1	1572.6	1573.0
35,60	1573.5	1573.9	1574.4	1574.8	1575.3	1575.7	1576.1	1576.6	1577.0	1577.5
35.70	1577.9	1578.4	1578.8	1579.2	1579.7	1580.1	1580.6	1581.0	1581.5	1581.9
35.60	1,582,4	1582.8	1563.2	1583.7	1584.1	1584.6	1585.0	1585.5	1585.9	1566.4
35.90	1ენნ.ხ	1507.2	1507.7	1508.1	1508.6	1509.0	1559.5	1589.9	1590.4	1590.E
36.00	1602.2	3503.5		3.50- 6						
	1591.3		1592.1		1593.0	1593.5			1594.8	1595.3
30,10	1595.7		1596.6		1597.5	1597.9		1590.3	1599.3	1599.7
30,20	1600.2		1601.0	-	1601.9	1602.4			1603.7	1604.2
36.30	1604.6	1005.1	160,5	1:05.9	1605,4	1006.8	1607.3	1607.7	1608.2	1608.6
35.40	1009.1	1609.5	1610.0	1610.4	1610.9	1611.3	1611.7	1618.2	1612.6	1613.1
36.50	1013.5	1514.0	1014.4	1514.9	1615.3	1615.8	1616.2	1616.7	1617.1	1617.5
35,50	1016.0	1618.4	1618.9	1619.3	1619.8	1620.2	1620.7	1621.1	1621.6	1622.0
36.70	1622.5	1622.9	1623.4	1623.8	1624.2	1624.7	1625.1	1625.6	1626.0	1626.5
36.80	1626.9		1627.8		1628.7	1629.2		1630.1	1630.5	1631.0
36.90	1631.4		1632.3		1633.2	1633.6	1634.1	1634.5	1635.0	1635.4
		3217				a-35•-			33	
37.00	1635.9	1636.3	1636.8	1637.2	1637.7	1638.1	1638.6	1639.0	1639.5	1639.9
37.10	1640.4	1640.8	1641.3	1641.7	1642.2	1642.6	1643.0	1643.5	1643.9	1644.4
37.20	1644.8	1645.3	1645.7	1646.2	1646.6	1647.1	1647.5	1648.0	1648.4	1648.9
37.30	1649.3		1650.2	1650.7	1651.1	1651.6	1652.0	1652.5	1652.9	1653.4
37.40	1653.8	1654.3	1654.7	1655.2	1655.6	1656.1	1656.5	1657.0	1657.4	1657.9
				44,7,744		1-7-11		2-5/10	4-3,	4.27.12
37.50	1658.3	1658.8	1659.2	1659.7	1660.1	1660,6	1661.0	1661.5	1661,9	1662.4
37.60	1662.8	1663.2	1663.7	1664.1	1664,6	1665.0	1665.5	1665.9	1666.4	1666.8
37.70	1667.3	1667.7	1668.2	1668.6	1669.1	1669.5	1670.0	1670.4	1670.9	1671.3
37.80	1671.8	1672.2	1572.7	1673.1	1673.6	1674.0	1674.5	1675.0	1675.4	1675.9
37.90	1676.3	1676.8	1677.2	1677.7	1678.1	1678.6	1679.0	1679.5	1679.9	1680.4
38.00	1680.8	1681.3	1681.7	1682.2	1682.6	1692 1	1693 -	1684.0	1634,4	169h O
38,10	1685.3	1685.8	1686.2		1687.1	1683.1	1683.5			1684.9
38.20	1689.8	1690.3		1686.7		1687.6	1688.0	1688.5	1688,9	1689.4
38.30	-	-	1690.7	1691.2	1691,6	1692.1	1692.5	1693.0	1693.4	1693.9
	1694.3	1694.8	1695.2	1695.7	1696.2	1696.6	1697.1	1697.5	1698.0	1698.4
38.40	1698.9	1699,3	1699.8	1700.2	1700,7	1701.1	1701.6	1702.0	1702.5	1702.9
38.50	1703.4	1703.8	1704.3	1704.7	1705.2	1705.7	1706.1	1706.6	1707.0	1707.5
38.60	1707.9	1708.4	1708.8	1709.3	1709.7	1710.2	1710.6	1711.1	1711.5	1712.0
38.70	1712.4	1712.9	1713.3	1713.8	1714.3	1714.7	1715.2	1715.6	1716.1	1716.5
38.80	1717.0	1717.4	1717.9	1718.3	1718.8	1719.2	1719.7	1720.1	1720.6	1721.1
38.90	1721.5	1722.0	1722.4	1722.9	1723.3	1723.8	1724.2	1724.7	1725.1	1725.6
39.00	1706 0	1706 6	1707 0	Trop h	1207 0	1000 a	1700 0	1700 0	1700 7	1770 1
39.00	1726.0	1726.5	1727.0	1727.4	1727.9	1728.3	1728.8	1729.2	1729.7	1730.1
	1730.6	1731.0	1731.5	1732.0	1732,4	1732.9	1733.3	1733.8	1734.2	1734.7
39.20	1735.1	1735.6	1736.0	1736.5	1737.0	1737.4	1737.9	1738.3	1738.8	1739.2
39.30	1739.7	1740.1	1740.6	1741.0	1741.5	1742.0	1742.4	1742.9	1743.3	1743.8
39.40	1744.2	1744.7	1745.1	1745.6	1746.1	1746.5	1747.0	1747.4	1747.9	1748.3
39.50	1748.8	1749.2	1749.7	1750.2	1750.6	1751.1	1751.5	1752.0	1752.4	1752.9
39.60	1753.3	1753.8	1754.3	1754.7	1755.2	1755.6	1756.1		1757.0	1757.5
39.70	1757.9	1758.4	1758.8	1759.3	1759.7	1760.2	1760.6	1761.1	1761.6	1762.0
39.80	1762.5	1762.9	1763.4	1763.8	1764.3	1764.8	1765.2	1765.7	1766.1	1766.6
39.90	1767.0	1767.5	1768.0	1768.4	1768.9	1769.3	1769.8	1770.2	1770.7	1771.2
	, -,	-,-,,	,				~10000	-11000	~114.1	~110***
				Т	cmperatu	re, F				

TABLE 2 CHROM- C-ALUMEL (Continued)

		IAI) " C \	CHRUM	· LAL	UMEL	(Continu	ed)		
							Re	ference	Junction	, 32 °F
Millivolts	.00	.01	•02	.03	.04	•05	. 06	.07	50.	.09
40,00	1771.6	1772.1	1772.5	1773.0	1773.4	1773.9		1774.2	1775.3	
40.10	1776.0									1775.7
		1776.6	1777.1	1777.6	1778.0	1778.5		1779.4	1779.9	1700.3
40.20	1750.8	1751.2	1761.7	1732.1	1782.6	1783.1		1764.0	1784.4	1784.9
40.30	1705.4	1785.5	1756.3	1786.7	1767.2	1787.6	1768.1	1,738.6	1789.0	1789.5
40.40	1769.9	1790.4	1790.9	1791.3	1791.8	1792.2	1792.7	1793.1	1793.6	1794.1
40.50	1794.5	1795.0	1795.4	1795.9	1796.4	1796.8		1797.7	1798.2	1798.7
40.60	1799.1	1799.6	1800.0	1800.5	1801.0	1801.4		1802.3	1802.8	1803.3
40,70	1803,7	1804,2	1804.6	1805.1	1805,6	1806.0	1806.5	1806.9	1807.4	1807.9
40.80	1808.3	1808.8	1809.2	1809.7	1810.2	1810.6	1811,1	1811.5	1812.0	1812.5
40.90	1812.9	1613.4	1813.8	1814.3	1814.8	1815.2	1815.7	1816.1	1816,6	1817.1
41.00	1817.5	1818.0	1818.4	1818.9	1819.4	1819.8	1820.3	1820.7	1821,2	1821.7
41.10	1855'J	1822.6	1823.1	1823.5	1824.0	1824.4	1824.9	1825.4	1825.8	1826.3
41.20	1826.7	1827.2	1827.7	1828.1	1828.6	1829.1	1829.5	1830.0	1830,4	1830.9
41.30	1831.4	1831.8	1832.3	1832.8	1833.2	1833.7	1834.1	1834.6	1835.1	1835.5
41.40	1836.0	1836.4	1836.9	1837.4	1837.8	1838.3		1839.2	1839.7	184c.1
41.50	1840.6	1841.1	1841.5	1842.0	1842.5	1842.9	1843.4	1843.8	1844.3	1844.8
41.60	1845.2	1845.7	1846.2	1846.6	1847.1	1847.6	1848.0	1848.5	1843.9	1849.4
41.70	1849.9	1850.3	1850.8	1851.3	1851.7	1852.2		1853.1	1853,6	1854.0
41.80	1854.5	1855.0	1855.4	1855.9	1856.4	1856.8		1857.8	1858.2	1858.7
41.90	1859.1	1859.6	1860.1	1860.5	1861.0	1361.5		1862.4	1862.9	1863.3
	200012	20000	1030.11	10001)	1002,0		,			
42.00	1863.8	1864.3	1864.7	1865.2	1865.6	1866.1	1866,6	1567.0	1867.5	1868,0
42.10	1868.4	1868.9	1869.4	1869.8	1870.3	1870.8		1871.7	1872.2	1872.6
42.20	1873.1	1873.5	1874.0	1874.5	1874.9	1875.4		1876.3	1876.8	1877.3
42.30					1879.6	1880.1		1881.0	1881.5	1881.9
42.40	1877.7	1876.2	1878.7	1879.1	1884.3	1884.7		1885.7	1886.1	1886.6
76.40	1002,4	1882.9	1883.3	1883.8	1004.3	1004.1	1005.2	10001.7	100011	100010
42.50	1887.1	1887.5	1388.0	1888.5	1888.9	1889.4	1889.9	1890.3	1890.8	1891.3
42.60	1891.7	1892.2	1892.7	1893.1	1893.6	1894.1	1894.5	1895.0	1895.5	1895.9
42.70	1896.4	1896.9	1897.3	1897.8	1898.3	1898.7	1898.8	1899.3	1899.7	1900.2
42.80	1900.7	1901.1	1901.6	1902.1	1902.5	1903.0	1903.5	1903.9	1904.4	1904.9
42.90	1905.3	1905.8	1906.3	1906.8	1907.2	1907.7	1908.2	1908.6	1909.1	1909.6
43.00	1910.0	1910.5	1911.0	1911.4	1911.9	1912.4	1912.8	1913.3	1913.8	1914.2
43.10	1914.7	1915.2	1915.7	1916.1	1916.6	1917.1	1917.5	1918.0	1918.5	1918.9
43.20	1919.4	1919.9	1920.3	1920.0	1921.3	1921.8	1922.2	1922.7	1923.2	1923.6
43.30	1924.1	1924.6	1925.0	1925.5	1926,0	1926.4	1926.9	1927.4	1927.9	1928.3
43.40	1928.8	1929.3	1929.7	1930.2	1930.7	1931.1	1931.6	1932.1	1932.5	1933.0
							-,,,	->3	-55-15	-233**
43.50	1933.5	1934.0	1934.4	1934.9	1935.4	1935.8	1936.3	1936.8	1937.2	1937.7
43.60	1938.2	1938.7	1939.1	1939.6	1940.1	1940.5	1941.0	1941.5	1942.0	1942.4
43.70	1942.9	1943.4	1943.8	1944.3	1944.8	1945.2	1945.7	1946.2	1946.7	1947.1
43.80	1947.6	1948.1	1948.5	1949.0	1949.5	1950.0	1950.4	1950.9	1951.4	1951.8
43.90	1952.3	1952.8	1953.3	1953.7	1954.2	1954.7	1955.1	1955.6	1956.1	1956.5
*		>>	-223.3	~///	2))	~///	277712	2000	2,,,-1,	-33-43
44.00	1957.0	1957.5	1958.0	1958.4	1958.9	1959.4	1959.9	1960.3	1960,8	1961.3
44.10	1961.7	1962.2	1962,7	1963.2	1963.6	1964.1	1964.6	1965.0	1965.5	1966.0
44.20	1966.5	1966.9	1967.4	1967.9	1968.3	1968.8	1969.3	1969.8	1970.2	1970.7
44.30	1971.2	1971.7	1972.1	1907.9	1973.1	1973.5	1974.0	1974.5	1975.0	1975.4
44.40	1975.9	1976.4	1976.8	1977.3	1.977.8	1978.3	1974.0	1979.2	1979.7	1980.2
	*21209	471047	7210.0	4211+3	*211.0	7310+2	1710.1	7313*C	421311	~900 • G
44.50	1980.6	1981.1	1981.6	1982.1	1982.5	1983.0	1983.5	1983.9	1984,4	1984.9
44.60	1985.4	1985.8	1986.3	1986.8	1987.3	1987.7	1988.2	1988.7	1989.2	1989.6
44.70	1990.1	1990.6	1991.0	1991.5	1992.0	1992.5	1998.9	1993.4	1993.9	1994.4
44.80	1994.8	1995.3	1995.8	1996.3	1996.7	1997.2			1998.6	
44.90	1999.6	5000*1	2000.5				1997.7	1998.2		1999.1
,00	*333.0	C000+T	2000.5	5001*0	2001.5	5005*0	2002.4	2002.9	2063,4	2003.9
				m		. 00				

Temperature, or

TABLE 2 CHROMEL-ALUMEL (Continued)

		IAI) L. L.	CITA	1 to to -71 to	Ome - /	Committee	u		
							Ref	erence J	unction,	32 ° F
Millivolta	.00	.01	.02	.03	•04	.05	.06	.07	.08	.09
45.00	2004.3	2064.8	2005.3	2005.7	2006.2	2006.7	2007.2	2007.6	2008.1	2008.6
45.10	2009.1	2009.5	2010.0	2010,5	2011.0	2011.5	2011.9	2012.4	2012.9	2013.4
45.20	2013.8	2014.3	2014.8	2015.3	2015.7	2016.2	2016.7	2017.2	2017.6	2015.1
45.30	2018.6	2019.1	2019.5	5050.0	5050.2	2021.0	2021.4	2021.9	2022.4	2022.9
45.40	2023.3	2023.5	202/1.3	2024.6	2025.2	2025.7	2026.2	2026.7	2027.2	2027.6
										·
45.50	2028.1	2028.6	2029,1	2029.5	2030.0	2030.5	2031.0	2031.4	2031.9	2032.4
45.60	2032.9	2033.4	2033.8	2034.3	2034.8	2035.3	2035.7	2036.2	2036.7	2037.2
45.70	2037.6	2038.1	2038,6	2039.1	2039,6	2040.0	2040.5	2041.0	2041.5	2041.9
45.80	2042.4	20/12.9	2043.4	2043.9	2044.3	2044.8	2045.3	2045.8	2016.2	2046.7
45.90	2047.2	2047.7	2048.2	2048,6	2049.1	2049.6	2050.1	2050.6	2051.0	2051.5
				20.040	L+1)•1	20.50	20,7-1-		- >	
46.00	2052.0	2052.5	2052.9	2053.4	2053.9	2054.4	2054.9	2055.3	2055.8	2056.3
46.10	2056.8	2057.3	2057.7	2058.2	2058,7	2059.2	2059.6	2060.1	2060.6	2061.1
46.20	2061.6	2065.0	2062.5	2063.0	2063.5	2064.0	2064.4	2064.9	2065.4	2065.9
46.30	2066.4	2066.8	2067.3	2067.8	2068.3	2068.8	2069.2	2069.7	2070.2	2070.7
46.40	2071.2	2071.6	50.45.1	2072.6	2073.1	2073.6	2074.0	2074.5	2075.0	2075.5
10.10	201112	2011.0	2012.1	2012.0	2013.1	201,340	2014.0	2.0 ()	1.075.0	201343
46.50	2076.0	2076.4	2076.9	2077.4	2077.9	2078.4	2078.9	2079.3	2079.8	2080.3
46.60	2080.8	2081.3				2083.2	2083.7	2084.1	2084.6	2085.1
46.70	2085.6	2086.1	2081.7	2082.2	2082.7	2088.0	2088.5	2089.0	2089.4	2089.9
			2086.5	2087.0						2094.7
46.80	2090.4	2090.9	2091.4	2091.9	2092.3	2092.8	2093.3	2093.8	2094.3	
46.90	2095.2	2095.7	2096.2	2096.7	2097.2	2097,6	2098.1	2098.6	2099.1	5057.6
hu oo							****	02.02 1	03.03.0	2104.4
47.00	2100.1	21.00.5	2101.0	2101.5	2102.0	2102.5	2102.9	2103.4	2103.9 2108.7	2109.2
47.10	2104.9	2105.4	2105.8	2106.3	2106.8	2107.3	2107.8	2108.3		
47.20	2109.7	5110,5	2110.7	5111.5	2111.7	2112.1	2112.6	2113.1	2113.6	2114.1
47.30	2114.6	2115.0	2115.5	2116.0	2116.5	2117.0	2117.5	2117.9	2118.4	2118,9
47.40	2119.4	2119.9	2120.4	2120.9	2121.3	2121.8	5155.3	5155'8	2123.3	2123.8
ha so										
47.50	2124.2	2124,7	5152.5	2125.7	2126.2	2126.7	2127.2	2127.6	2128,1	2128,6
47.60	2129.1	2129.6	2130.1	5730.6	2131.0	2131.5	2132.0	2132.5	2133.0	21.33.5
47.70	2134.0	2134.4	2134.9	2135.4	2135.9	2136.4	2136.9	2137.4	2137.9	2138.3
47.80	8138.8	2139.3	2139.8	2140.3	2140.8	2141.3	2141.7	2142.2	2142.7	2143.2
47.90	2143.7	2144.2	2144.7	2145.2	2145.6	2146.1	2146.6	2147.1	2147.6	2148,1
beer and										
48.00	2148.6	2149.1	2149.5	2150.0	2150.5	2151.0	2151.5	2152.0	2152.5	8153.0
48.10	2153.4	2153.9	21.74.4	2154.9	2155.4	2155.9	2156.4	2156.9	2157.3	2157,8
48.20	2158.3	2158.8	21.59.3	S129*8	2160.3	2160.8	2161.3	2161.7	2162.2	2162.7
48.30	8163.8	2163.7	5194.5	2164.7	2165.2	2165.7	2166.1	2166.6	2167.1	2167.6
48.40	5168.1	2168.6	2169.1	2169,6	2170.1	2170.6	2171.0	2171.5	2172.0	2172,5
1										
48,50	2173.0	2173.5	2174.0	2174.5	2175.0	2175.5	2175.9	2176.4	2176.9	2177,4
48.60	5177.9	2178.4	2178.9	2179,4	2179.9	2180.4	2180.8	2181.3	2181.8	2162.3
48.70	8.8818	2183.3	2183.8	2184.3	5184.8	2185.3	21.65.8	2186.2	2186.7	2187.2
48,30	2167.7	S1cg.5	2148.7	2139.2	2189.7	2190.2	2190.7	2191.2	2191.7	2198.2
48.90	2192.6	2193.1	2193.6	2104.1	2194.6	2195.1	2195.5	2196.1	2196.	5154.1
49.00	2197.5	2191	2150.0	2139.6	21,9.5	5500.0	5502.5	3307*6	2054.5	Stort 0
49,10	8308.5	2863.0	3002.5	2264,0	2204.5	2355.0	2205.5	2265.9	2206.4	2206.9
49.20	2207.4	25.65	2.00.3	2265.9	2209.5	550)*3	5570.4	2810.9	2011.8	201.3
49.30	5515'#	58375.0	22.21.3.0	2813.9	2214.3	∂214 •è	2215.3	251	231 - 3	2010
49.40	2217.3	2217.0	2215.3	8815.6	2019.3	3215.6	2880.3	8296.8	2551.3	3.193
49.50	5555*3	2222 J	321:3.3	2263.5	5354.5	2854F• 2	28.2	2025.7	284.6.4	85.29.7
19.60	8887.°	5354.4	eterne 🔐	365 .7	22.9.2	2829.7	35.47*5	2230.7	2031.1	20.00.7
49.76	2232.2	8838.7	@*33•**	2733.7	5534.3	2234.7	2235.1	2235.7	20364.1	20,000%
49.80	2237.0	25 37.5	28.50.1	2235-0	2239.1	2239.6	5540.1	2040.6	1951,1	00.00
49.90	2252.1	2.47,0	1793.1	5-43.0	2208.1	1246.6	3245.1	0.855.29	2546.1	
						_				

Temperature, of

TABLE 2 CHROMEL-ALUMEL (Concluded)

			D	CHICOR	11L L-M L	OMLL (•		
							R	eference	Junction	ı, 32 °₽
Millivolta		.01	.02	.03	.04	.05	.06	.07	.08	.09
50.00	2247.1		2248.1	2248.6	2249.1	2249.6	2250.1	2250.6	2251.1	2251.6
50.10	2252.1	2252.6	2253.1	2253.6	2254.1	2254.6	2255.1	2255.6	2256.1	2256.6
50.20	2257.1	2257.6	2258.1	2258.6	2259.1	2259.6	2260.1	2260.6	2261.1	2261.6
50.30	2202.1	2262.6	2263.1	2263.6	2264.1	2264.6	2265.1	2265.6	2266.1	2266.6
50.40	2267.1	2267.6	2268.1	2268.6	2269.1	2269.6	2270.1	2270.6	2271.1	2271.6
50.50	2272.1	2272.6	2273.1	2273.6	2274.1	2274.6	2275,1	2275.6	2276.1	2276.6
50.60	2277.1	2277.6	2278.1	2278.6	2279.1	2279.6	2280.1	2280.6	2281.1	2281.6
50.70	2282.1	2282.6	2283.1	2283.6	2284.1	2284.6	2285.1	2285.6	2286.1	2286.6
50.80	2287.1	2287.7	2288.2	2268.7	2289.2	2289.7	2290.2	2290.7	2291.2	2291.7
50.90	2292.2	2292.7	2293.2	2293.7	2294.2	2294.7	2295.2	2295.7	2296.2	2296.7
51.00	2297.2	2297.7	2298.2	2298.7	2299.2	2299.7	2300.2	2300.8	2301.3	2301.8
51.10	2302.3	2302.8	2303.3	2303.8	2304.3	2304.8	2305.3	2305.8	2306.3	2306.8
51.20	2307.3	2307.9	2308.3	2308.8	2309.3	2309.8	2310.4	2310.9	2311.4	2311.9
51.30	2312.4	2312.9	2313.4	2313.9	2314.4	2314.9	2315.4	2315.9	2316.4	2316.9
51,40	2317.4	2317.9	2318.5	2319.0	2319.5	2320.0	2320.5	2321.0	2321.5	2322.0
51.50	2322.5	2323.0	2323.5	2324.0	2324.5	2325.1	2325.6	2325.1	2326.6	2327.1
51.60	2327.6	2328.1	2328.6	2329.1	2329.6	2330.1	2330.6	2331.1	2331.7	2332.2
51.70	2332.7	2333.2	2333.7	2334.2	2334.7	2335.2	2335.7	2336.2	2336.7	2337.3
51.80	2337.9	2338.3	2338.8	2339.3	2339.8	2340.3	2340.8	2341.3	2341.8	2342.4
51.90	2342.9	2343.4	2343.9	2344.4	2344.9	2345.4	2345.9	2346.4	2346.9	2347.5
52.00	2348.0	2348.5	2349.0	2349.5	2350.0	2350.5	2351.0	2351.5	2352.1	2352.6
52.10	2353.1	2353.6	2354.1	2354.6	2355.1	2355.6	2356.1	2356.7	2357.2	2357.7
52.20	2358.2	2358.7	2359.2	2359.7	2360.2	2360.8	2361.3	2361.8	2362.3	2362.8
52.30	2363.3	2363.8	2364.3	2364.9	2365.4	2365.9	2366.4	2366.9	2367.4	2367.9
52.40	2368.4	2369.0	2369.5	2370.0	2370.5	2371.0	2371.5	2372.0	2372.6	2373.1
52.50	2373.6	2374.1	2374.6	2375.1	2375.6	2376.2	2376.7	2377.2	2377.7	2378.2
52,60	2378.7	2379.2	2379.8	2380.3	2380.8	2381.3	2381.8	2382.3	2382.9	2383.4
52,70	2383.9	2384.4	2384,9	2385.4	2385.9	2386.5	2387.0	2387.5	5388°0	2388.5
52.80	2389.0	2389.6	2390.1	2390.6	2391.1	2391.6	2392.1	2392.7	2393.2	2393.7
52.90	2394.2	2394.7	2395.2	2395.8	2396.3	2396.8	2397.3	2397.8	s398.3	2398.9
53.00	2399.4	2399.9	2400.4	2400.9	2401.4	2402.0	2402.5	2403.0	2403.5	2404.0
53.10	2404.6	2405.1	2405.6	2406.1	2406.6	2407.1	2407.7	2408.2	2408.7	2409.2
53.20	2409.7	2410.3	2410.8	2411.3	2411.8	2412.3	2412.9	2413.4	2413.9	2414.4
53.30	2414.9	2415.5	2416.0	2416.5	2417.0	2417.5	2418.1	2418.6	2419.1	2419.6
53.40	2420.1	2420.7	2421.2	2421.7	2422.2	2422.7	5453*3	2423.8	2424.3	2424.8
F2 T0	ohor o	-1								
53.50	2425.3	2425.9	2426.4	2426.9	2427.4	2428.0	2428.5	2429.0	2429.5	2430.0
	2430.6	2431.1	2431.6	2432.1	2432.7	2433.2	2433.7	2434.2	2434.7	2435.3
	2435,8	2436.3	2436.8	2437.4	2437.9	2438.4	2438.9	2439.4	2440.0	2440.5
	2441.0	2441.5	2442.1	2442,6	2443.1	2443.6	2444.2	2444.7	2445.2	2445.7
53.90	2446.3	2446.8	2447.3	2447.8	2448,4	2448.9	2449.4	2449.9	2450.5	2451.0
54.00	ohen e	ohro o	aliaa C		-1	-1-1-			-1	aliac a
	2451.5 2456.8	2452.0	2452.6	2453.1	2453.6	2454.1	2454.7	2455.2	2455.7	2456.2
	-	2457.3	2457.8	2458.3	2458.9	2459.4	2459.9	2460.4	2461.0	2461.5
	2462.0	2462.5	2463.1	2463.6	2464.1	2464.7	2465.2	2465.7	2466.2	2466.8
	2467.3 2472.6	2467.8	2468.3	2468.9	2469.4	2469.9	2470.4	2471.0	2471.5	2472.0
JT #70	€41€.D	2473.1	2473.6	2474.1	2474.7	2475.2	2475.7	2476.3	2476.8	2477.3
54.50	2477.8	2478,4	0/179 O	olize ii	01:90 0	oit0c r	oli 0 z o	oh On in	0400 3	0400 6
	24//.0 2483.1	2483.7	2478.9 2484.2	2479.4 2484.7	2480.0	2480.5	2481.0	2481.5	2482.1	2482.6
	2488.4	2489.0	2489.5		2485.3	2495.8	2486.3	2486.8	2487.4	2487.9
	2493.7	2494.3	2494.8	2490.0 2495.3	2495.9	2491.1 2496.4	2491.6 2496.9	2492.2 2497.5	2492.7 2498.0	2493.2 2498.5
	2499.1	2499.6	2500.1	2500.7	2495.9	2501.7	2502.3	2502.8	2503.3	2503.9
JJ-			,		· 30x+6	eacht 1	とういと・フ	6,50C2	C)()+)	•. J∨ J • Y

TABLE 3
TEMPERATURE VS MILLIVOLTS FOR IRON-CONSTANTAN THERMOCOUPLES

1 1 1741	LKAIU	(L 13 N	HELIYO	/L1310	JK IKOI	1-00113	IANTA		MOCO	OLFE
							Refe	rence Ju	metion,	32 ° F
Millivolts	.00	.01	.02	•03	.04	.05	.06	٥٧ ،	.08	.09
-07.40										0297.8
-07.30										-0291.2
~07.20										~0284.7
-07.10										0278.4
-07.00										-0272.2
0,100	0110011	020113	000,00	***************************************	000712				,	
-06.90	-0260.7	-0261.3	-0261.9	~0262.5	~0263.1	-0263.7	-0264.3	-0264.9	-0265.5	-0266.1
-06.80										-0260.1
-06.70										-0254.3
-06.60										-0248.6
-06.50										-0242.9
	_			*						
~06.40	.0232.5	-0233.1	-0233.6	-0234.2	-0234.7	-0235.2	-0235.8	-0236.3	-0236.9	-0237.4
-06.30										-0232.0
-06.20										-0226.7
~06.10										-0221.5
~06.00	-0211.8	-0212.3	-0212.8	-0213.3	-0213.8	-0214.3	-0214.8	-0215.3	-0215.8	-0216.3
-05.90	-0206.8	-0207.3	-0207.8	-0208.3	-0208.7	-0209.2	-0209.7	-0210.2	-0210.7	-0211.2
~05.80	-0201.8	~0202.3	-0202.8	-0203.3	-0203.8	-0204.3	-0201.8	-0205.3	-0205.8	-0206.3
~05.70	-0197.0	-0197.5	-0198.0	-0198.4	-0198.9	-01.99 .4	-0199.9	-0200.4	-0200.9	-0201.4
-05.60	-0192.2	~0192.7	-0193.2	-0193.6	-0194 • 1	-0194 . 6	~01.95.1	-0195.6	-0196.0	-0196.5
-05.50	-0187.5	-0188.0	-0188.4	-0188.9	-0189.4	-0189.9	-03.90.3	-0190.8	-0191.3	~0191.7
-05.40	-0182.8	~0183.3	-0183.8	-0184.2	-0184.7	-0185.2	-0185.6	-0186.1	-0186.6	-0187.0
-05.30	-0178.2	-0178.7	-0179.1	-0179.6	-0180.1	-0180.5	-0181.0	-0181.4	-0181.9	~0182.4
-05.20										-0177.8
-05.10										-0173.2
~05 . 00	-0164.7	-0165.1	-0165.5	-0166.0	-0166.4	-0166.9	-0167.3	-0167.8	-0168.2	-c168.7
~04.90	-0160.2	-0160.6	-0161.1	-0161.5	-0162.0	-0162.4	-0162.9	-0163.3	-0163.8	-0164.2
-04.80			-0156.7							
-04.70	-0151.4	-01.51.8	-0152.3	-0152.7	-0153.1	-0153.6	-0154.0	-0154.5	-0154.9	~0155.3
~04.60			-0147.9							
-04.50	-0142.6	-0143.1	-0143.5	-0144.0	-0144.4	-0144.8	-0145.3	-0145.7	-0146.1	-0146.6
								- •		
~04.40	-0138.3	~0138.7	-0139.2	-0139.6	-0140.0	-0140.5	-0140.9	-0141.3	-0141.8	-0142.2
-04.30	-0134.0									
-04.20	-0129.6	-0130.1	-0130.5	-0130.9	-0131.4	-0131.8	~0132.2	-0132.7	-0133.1	0133.5
-04.10	-0125.3	~0125.7	-0126.1	-0126.6	-0127.0	-0127.4	-0127.9	-0128.3	-0128.8	-0129.2
-04.00	-0120.9	~01.21.4	-0121.8	~0122.2	-0122-7	-0123.1	-0123.5	-0124.0	-0124.4	-0124.8
-03.90	-0116.8									
-03.80	-0112.7	-0113.1	-0113.5	-0113.9	-0114.3	-0114.7	-0115.2	-0115.6	-0116.0	-01.16-4
~03.70	-01.08.6	-0109.0	-0109.4	-0109.8	-0110.2	-0110.7	-0111.1	~0:111.5	-0111.9	-0112.3
-03.60	-0104.5									
-03.50	-0100.5	~0100.9	-0101.3	-0101.7	-0102.1	-0102.5	-0102.9	-0103.3	-0103.7	-0104.1
-03.40	-0096.5									
-03.30	-0092.4									
-03.20	-3088.4									
-03.10	-0024.5									
-03.00	-0080.5	-0080.9	-0081.3	0081.7	-0082.1	-0082.5	-0082•9	-0083.3	-0083.7	-0084.1
	0077 -	0076 0	0.000			0000				
-02.90	-0076.5									
~02.80	~0072.6									
-02.70	-0068.7									
-02.60	-00001.3 -									
-02.50	0060.9	.0001*3	. A. TOOO.	.0005*0	-0002.1	-0052 •8	~0063.2	~co63.6	~3064*0	~0064 4

Temperature, oF

TABLE 3 IRON-CONSTANTAN (Continued)

Reference Junction, 32 OF .06 Millivolts .07 -00 ..01 .02 -03 .04 -05 -0057.0 -0057.4 -0057.8 -0058.2 -0058.5 -0058.9 -0059.3 -0059.7 -0060.1 -0060.5 -02.40 -0053.1 -0053.5 -0053.9 -0054.3 -0054.7 -0055.1 -0055.5 -0055.8 -0056.2 -0056.6 -02.30 -0049.3 -0049.7 -0050.1 -0050.4 -0050.8 -0051.2 -0051.6 -0052.0 -0052.4 -0052.7 -02.20 -0045.5 -0045.8 -0046.2 -0046.6 -0047.0 -0047.4 -0047.8 -0048.1 -0048.5 -0048.9 -02,10 -02,00 -0041.6 -0042.0 -0042.4 -0042.8 -0043.2 -0043.5 -0043.9 -0044.3 -0044.7 -0045.1 -0037.8 -0038.2 -0038.6 -0039.0 -0039.3 -0039.7 -0040.1 -0040.5 -0040.9 -0041.3 -01.90 -0034.0 -0034.4 -0034.8 -0035.2 -0035.5 -0035.9 -0036.3 -0036.7 -0037.1 -0037.4 -01-80 PO1 70 -0026.5 -0026.9 -0027.2 -0027.6 -0028.0 -0028.4 -0028.7 -0029.1 -0029.5 -0029.9 -01.60 -0022.7 -0023.1 -0023.5 -0023.9 -0024.2 -0024.6 -0025.0 -0025.4 -0025.7 -0026.1 -01.50 -0019.0 -0019.4 -0019.7 -0020.1 -0020.5 -0020.9 -0021.2 -0021.6 -0022.0 -0022.4 -01.40 -0015.3 -0015.6 -0016.0 -0016.4 -0016.8 -0017.1 -0017.5 -0017.9 -0018.2 -0018.6 -01.30 -0011.5 -0011.9 -0012.3 -0012.7 -0013.0 -0013.4 -0013.8 -0014.1 -0014.5 -0014.9 -01.20 -0007.8 -0008.2 -0008.6 -0009.0 -0009.3 -0009.7 -0010.1 -0010.4 -0010.8 -0011.2 -01.10 -0004.2 -0004.5 -0004.9 -0005.3 -0005.6 -0006.0 -0006.4 -0006.7 -0007.1 -0007.5 -01.00 -00.90 -0000.5 -0000.8 -0001.2 -0001.6 -0001.9 -0002.3 -0002.7 -0003.0 -0003.4 -0003.8 0003.2 0002.8 0002.5 0002.1 0001.7 0001.4 0001.0 0000.6 0000.3 0000.1 -00.80 0006.9 0006.5 0006.1 0005.8 0005.4 0005.0 0004.7 0004.3 0003.9 0003.6 -00.70 0010.5 0010.1 0009.8 0009.4 0009.0 0008.7 0008.3 0007.9 0007.6 0007.2 -00.60 0014.1 0013.8 0013.4 0013.0 0012.7 0012.3 0012.0 0011.6 0011.2 0010.9 -00.50 -00.40 0017.8 0017.4 0017.0 0016.7 0016.3 0015.9 0015.6 0015.2 0014.9 0014.5 0021.4 0021.0 0020.6 0020.3 0019.9 0019.6 0019.2 0018.8 0018.5 0018.1 -00.30 0025.0 0024.6 0024.3 0023.9 0023.5 0023.2 0022.8 0022.4 0022.1 0021.7 -00.20 0028.6 0028.2 0027.8 0027.5 0027.1 0026.8 0026.4 0026.0 0025.7 0025.3 -00.10 0032.1 0031.8 0031.4 0031.1 0030.7 0030.4 0030.0 0029.6 0029.3 0028.9 -00.00 00.00 0032.1 0032.5 0032.9 0033.2 0033.6 0033.9 0034.3 0034.6 0035.0 0035.4 00.10 0035.7 0036.1 0036.4 0036.8 0037.1 0037.5 0037.9 0038.2 0038.6 0038.9 0039.3 0039.6 0040.0 0040.3 0040.7 0041.1 0041.4 0041.8 0042.1 0042.5 00.20 0042.8 0043.2 0043.5 0043.9 0044.3 0044.6 0045.0 0045.3 0045.7 0046.0 00.30 0046.4 0046.7 0047.1 0047.4 0047.8 0048.1 0048.5 0048.9 0049.2 0049.6 00.40 00.50 0049.9 0050.3 0050.6 0051.0 0051.3 0051.7 0052.0 0052.4 0052.7 0053.1 0053.4 0053.8 0054.1 0054.5 0054.9 0055.2 0055.6 0055.9 0056.3 0056.6 00.60 00,70 0057.0 0057.3 0057.7 0058.0 0058.4 0058.7 0059.1 0059.4 0059.8 0060.5 00.80 0060.5 0060.8 0061.2 0061.5 0061.9 0062.2 0062.6 0062.9 0063.3 0063.6 0064.0 0064.3 0064.7 0065.0 0065.4 0065.7 0066.1 0066.4 0066.8 0067.1 00.90 0067.5 0067.8 0068.2 0068.5 0068.9 0069.2 0069.6 0069.9 0070.3 0070.6 01-00 0071.0 0071.3 0071.6 0072.0 0072.3 0072.7 0073.0 0073.4 0073.7 0074.1 01.10 0074.4 0074.8 0075.1 0075.5 0075.8 0076.2 0076.5 0076.9 0077.2 0077.6 01.20 0077.9 0078.2 0078.6 0078.9 0079.3 0079.6 0080.0 0080.3 0080.7 0081.0 01.30 01.40 0081.4 0081.7 0082.1 0082.4 0082.7 0083.1 0083.4 0083.8 0084.1 0084.5 01.50 0084.8 0085.2 0085.5 0085.9 0086.2 0086.5 0086.9 0087.2 0087.6 0087.9 01,60 0088.3 0088.6 0089.0 0089.3 0089.7 0090.0 0090.3 0090.7 0091.0 0091.4 0091-7 0092-1 0092-4 0092-7 0093-1 0093-8 0094-1 0094-5 0094-8 01.70 0095.2 0095.5 0095.8 0096.2 0096.5 0096.9 0097.2 0097.6 0097.9 0098.2 01,80 0098.6 0098.9 0099.3 0099.6 0100.0 0100.3 0100.6 0101.0 0101.3 0101.7 01.90 J2.00 0102.0 0102.4 0102.7 0103.0 0103.4 0103.7 0104.1 0104.4 0104.7 0105.1 02.10 0105.4 0105.8 0106.1 0106.5 0106.8 0107.1 0107.5 0107.8 0108.2 0108.5 02.20 0108.8 0109.2 0109.5 0109.9 0110.2 0110.5 0110.9 0111.2 0111.6 0111.9 0112.3 0112.6 0112.9 0113.3 0113.6 0114.0 0114.3 0114.6 0115.0 0115.3 02,30 02,40 0115.7 0116.0 0116.3 0116.7 0117.0 0117.4 0117.7 0118.0 0118.4 0118.7

Temperature, or

TABLE 3 IRON-CONSTANTAN (Continued)

							Re	ference	Junction	. 32 °F
Millivolts	.00	.01	.02	.03	·Ojl	•05	.06	-97	.08	•09
02.50	0119.1	0119.4	0119.7	0120.1	0120.4	0120.7	0121.1	0121.4	0121.8	0122.1
02.60	0122.4	0122.8	0123.1	0123.5	0123.8	0124.1	0124.5	0124.8	0125.2	0125.5
02.70	0125.8	0126.2	0126.5	0126.8	0127.2	0127.5	0127.9	0128.2	0128.5	0128.9
02.80	0129.2	0129.6	0129.9	0130.2	0130.6	0130.9	0131.2	0131.6	0131.9	0132.3
02.90	0132.6	0132.9	0133.3	0133.6	0133.9	0134.3	0134.6	0135.0	0135.3	0135.6
03.00	0136.0	0136.3	0136.6	0137.0	0137.3	0137.7	0138.0	0138.3	0138.7	0139.0
03.10	0139.3	0139.7	0140.0	0140.4	01,40.7	0141.0	0141.4	0141.7	0142.0	0142.4
03.20	0142.7	0143.1	0143.4	0143.7	0144.1	0144.4	0144.7	0145.1	0145.4	0145.7
03.30	0146.1	0146.4	0146.8	0147.1	0147.4	0147.8	0148.1	0148.4	0148.8	0149 .1
03.40	0149.4	0149.8	0150.1	0150.5	0150.8	0151.1	0151.5	0151.8	0152.1	0152.5
03.50	0152.8	0153.1	0153.5	0153.8	0154.1	0154.5	0154.8	0155.2	0155.5	0155.8
03.60	0156.2	0156.5	0156.8	0157.2	0157.5	0157.8	0158.2	0158.5	0158.8	0159.8
03.70	0159.5	0159.8	0160.2	0160.5	0160.9	0161.2	0161.5	0161.9	0162.2	0162.5
03.80	0162.9	0163.2	0163.5	0163.9	0164.2	0164.5	0164.9	0165.2	0165.5	0165.9
03.90	0166.2	0166.5	0166.9	0167.2	0167.6	0167.9	0168.2	0168.6	0168.9	0169.2
04.00	0169.6	0169.9	0170.2	0170.6	0170.9	0171.2	0171.6	0171.9	0172.2	0172.6
04.10	0172.9	0173.2	0173.6	0173.9	0174.2	0174.6	0174.9	0175.2	0175.6	0175.9
04.20	0176.2	0176.6	0176.9	0177.3	0177.6	0177.9	0178.3	0178.6	0178.9	0179.3
04.30	0179.6	0179.9	0180.3	0180.6	0180.9	0181.3	0181.6	0181.9	0182.3	0182.6
04.40	0185.9	0183.3	0183.6	0183.9	0184.3	0184.6	0184.9	0185.3	0185.6	0185.9
al ca		2106.6	4.06.0				- 00 -			
04.50	0186.3	0186.6	0186.9	0187.3	0187.6	0187.9	0188.3	0188.6	0188.9	0189.3
04.60	0189.6	0189.9	0190.3	0190.6	0190.9	0191.3	0191.6	0192.0	0192.3	0192,6
04.70 04.80	0193.0	0193.3	0193.6	0194.0	0194.3	0194.6	01.95.0	0195.3	0195.6	0196.0
04.80	0196.3	0196.6	0197.0	0197.3	0197.6	0198.0	0198.3		0199.0	0199.3
04.50	0133.0	()200.0	0200.3	0200.0	0201.0	0201.3	0201.6	0202.0	0202.3	0202.6
05.00	0203.0	0203.3	0203.6	0204.0	0204.3	0204.6	0205.0	0205.3	0205.6	0206.0
05.10 05.20	0206.3	0206.6 0210.0	0207.0	0207.3	0207.6	0.8080	0208.3	0208.6	0209.0	0809.3
05.20	0213.0	0210.0	0210.3	0210.6	0211.0	0211.3	0211.6	0212.0	0212.3	0212.6
05.40	0216.3	0216.7	0213.7	0214.0	0214.3	0214.7	0215.0	0215.3	0215.7	0216.0 0219.3
•5• .0	01.1013	01.1041	02.11.0	OETI •5	051111	0.00.0	0210.3	0210.7	0219.0	0219.3
05.50	0219.7	0220.0	0220.3	0220.7	0221.0	0221.3	0221.7	0222.0	0222.3	0222.7
05.60	0223.0	0223.3	0223.7	055/1.0	0224.3	0224.7	0225.0	0225.3	0225.7	0286.0
05.70	0226.4	0226.7	0227.0	0227.4	0227.7	0558*0	0228,4	0228.7	0889.0	0229.4
05.80	0229.7	0230.0	0230.4	0230.7	0231.0	0231.4	0231.7	0232.0	0232.4	0232.7
05.90	0833.0	4.6890	0233.7	0234.0	0234.4	0234.7	0235.1	0235.4	0235.7	0236.1
	0236.4	0836.7	0237.1	0237.4	0237.7	0.8880	0238.4	0238.7	0239.0	0239.3
	0239.7	0240.0	0240.3	0240.6	0241.0	6241.3	0241.6	0241.9	02/12.3	0342.6
	0242.9	02/13.2	02/13.6	0243.9	0244.2	0244.5	0244.9	0245.2	0245.5	0245.9
-	0246.2 0249.4	0246.5	0246.8	0247.2	0247.5	0247.8	0248.1	0248.5	0248.8	0249.1
06.40	0249.4	0249.0	0250.1	0250.4	0250.7	0251.1	0251.4	0251.7	0252.0	0252.4
06.50	0252.7	0253.0	0052.2	0052.7	oordi o	oorli a	oorle C	0000	0000	00000 6
	0255.9	0256.3	0253.3	0253.7 0256.9	0254.0	0254.3	0254.6 0257.9	0255.0	0255.3	0255.6 0258.9
	0259.2	0259.5	0259.8	0250.9	0260.5	0260.8	0261.1	0261.5	0250.5	0262.1
	0262.4	0262.8	0263.1	0263.4	0263.7	0264.1	0264.4	0264.7	0265.0	0265.4
	0265.7	0266.0	0266.3	0266.7	0267.0	0267.3	0267.6	0268.0	0268.3	0268.6
		_				, -5	- 2-1 - 2			
07.00	0268.9	0269.3	0269.6	0269.9	0270.2	0270.6	0270.9	02712	0271.5	0271.0
07.10	02/2.2	0272.5	8.8780	0273.2	0273.5	0273.8	0274.1	0274.5	0274.8	0275.1
07.20	0275.4	0275.8	0276.1	02/6.4	0276.7	0277.1	0277.4	0277.7	0278.0	0278.4
	0278 . 7	0.279	0279.3	0879.7	0280.0	0280.3	0280.6	0281.0	0281.3	0281.6
07.40	0281.9	0.882.3	9.8880	0.888.9	0283.2	0283.6	0283.9	8.4380	0284.5	0584*0

Temperature, OF

TABLE 3 IRON-CONSTANTAN (Continued)

						•	Reft	erence Ju	metion.	32 °F
Millivolta	.00	. 01.	.02	.03	• Olt	.05	.06	.07	•08	.09
07.50	0285.2	0285.5	0285.9	0286.2	0286.5	0286.8	0287.2	0287.5	0287.8	0288.1
07.60	0288.5	8,8850	0289.1	0289.4	0289.8	0290.1	0290.4	0290.7	0291.1	0291.4
07.70	0291.7	0292.0	0292.4	0292.7	0293.0	0293.3	0293.7	0294.0	0294.3	0294.6
07.80	0295.0	0295-3	0295.6	0295.9	0296.3	0296.6	0296.9	0297.2	0297.6	0297.9
07.90	0298.2	0298.5	0298.9	0299.2	0299.5	0299.8	0300.2	0300.5	0300.8	0301.1
08.00	0301.5	0301.8	0302.1	0302.4	0302.8	0303.1	0303.4	0303.7	0304.1	0304.4
08.10	0304.7	0305.0	0305.4	0305.7	0306.0	0306.3	0306.7	0307.0	0307.3	0307.6
08.20	0308.0	0308.3	0308.6	0308.9	0309.3	0309.6	0309.9	0310.2	0310.6	0310.9 0314.1
08.30	0311.2	0311.5	0311.9	0312.2	0312.5	0312.8	0313.2 0316.4	0313.5 0316.7	0313.8	0317.4
08.40	0314.5	0314.8	0315.1	0315.4	0315.8	0316.1	0310.4	0270*1	0271 • T	0021 14
08.50	0317.7	0318.0	0318.4	0318.7	0319.0	0319.3	0319.7	0320.0	0320.3	0320.6
08,60	0321.0	0321.3	0321.6	0321.9	0322.3	0322.6	0322.9	0323.2	0323.6	0323.9
08.70	0324.2	0324.5	0324.9	0325.2	0325.5	0325.9	0326.2	0326.5	0326.8	0327.1
08.80	0327.5	0327.8	0328.1	0328.5	8.8260	0329.1	0329.4	0329.8	0330.1	0330.4
08.90	0330.7	0331.1	0331.4	0331.7	0332.0	0332.4	0332.7	0333.0	0333.3	0333.7
09.00	0334.0	0334.3	0334.6	0335.0	0335.3	0335.6	0335.9	0336.3	0336.6	0336.9
09.10	0337.2	0337.6	0337.9	0338.2	0338.5	0338.9	0339.2	0339.5	0339.8	0340.2
09.20	0340.5	0340.8	0341.1	0341.5	0341.8	0342.1	0342.4	0342.8	0343.1	0343.4
09.30	0343.7	0344.1	0344.4	0344.7	0345.0	0345.4	0345.7	0346.0	0346.3	0346.7
09.40	0347.0	0347.3	0347.6	0348.0	0348.3	0348.6	0348.9	0349.3	0349.6	0349.9
				-	-					
09.50	0350.2	0350.6	0350.9	0351.2	0351.5	0351.9	0352.2	0352.5	0352.8	0353.2
09.60	0353.5	0353.8	0354.1	0354.5	0354.8	0355.1	0355.4	0355.8	0356.1	0356.4
09.70	0356.7	0357.1	0357.4	0357•7	0358.0	0358.4	0358.7	0359.0	0359.3	0359.7
09.80	0360.0	0360.3	0360.6	0361.0	0361.3	0361.6	0361.9	0362.3	0362.6	0362.9
09.90	0363.2	0363.6	0363.9	0364.2	0364.5	0364.9	0365.2	0365.5	0365.8	0366.2
10.00	0366.5	0366.8	0367.1	0367.5	0367.8	0368.1	0368.5	0368.8	0369.1	0369.4
10.10	0369.8	0370.1	0370.4	0370.7	0371.1		0371.7	0372.0	0372.4	0372.7
10.20	0373.0	0373.3	0373.7	0374.0	0374.3	0374.6	0375.0	0375•3	0375.6	0375.9
10.30	0376.3	0376.6	0376.9	0377.2	0377.6	0377.9	0378.2	0378.5	0378.9	0379.2
10.40	0379.5	0379.8	0380.2	0380.5	0380.8	0381.1	0381.5	0381.8	0382.1	0382.4
10.50	0382.8	0383.1	0383.4	0383.7	0384.1	0384.4	0384.7	0385.0	0385.4	0385.7
10.60	0386.0	0386.3	0386.7	0387.0	0387.3	0387.6	0388.0	0388.3	0388.6	0388.9
10.70	0389.3	0389.6	0389.9	0390.2	0390.6	0390.9	0391.2	0391.5	0391.09	0392.2
10.80	0392.5	0392.8	0393.2	0393.5	0393.8	0394.1	0394.5	0394.8	0395.1	0395.4
10.90	0395.8	0396.1	0396,4	0396.7	0397.1	0397.4	0397.7	0398.0	0398.4	0398.7
11.00	0399.0	0399.3	0399•7	0,000	0400.3	0400.6	04010	0401.3	0/101.6	0401.9
11.10	0405.3	0402.6	0402.9	0403.2	0400.5	0403.9	0404.2	0404.5	0,101.0	0405.2
11.20	0405.5	0405.8	0406.2	0406.5	0406.8	0407.1	0407.5	0407.8	0408.1	0408.4
11.30	0408.8	0409.1	0409.4	0409.8	0410.1	0410.4	0410.7	0411.1	0411.4	0431.7
11.40	0412.0	0412.4	0412.7	0413.0	0413.3	0413.7	0414.0	0414.3	041/4.6	0115.0
11.50	0415.3	0415.6	0115.9	0/16.3	0416.6	0416.9	0417.2	0417.6	0417.9	0/18.2
11.60	0418.5	0418.9	0419.2	0419.5	0419.8	0420.2	0420.5	0420.8	0421.1	0421.5
11.70	0421.8	C#88.1	0422.4	0422.8	0423.1	0423.4	0423.7	0424.1	0424.4	0424.7
11.80	0425.0 0428.3	0425.4	0425.7 0428.9	0426.0 0429.3	0426.3 0429.6	0426.7 0429.9	0487.0	0427.3 0430.6	042Y 6	0428.0
ii.90	0428.3	U+28.6	0420.9	U#49.3	0429.6	0429.9	0430*S	U13U.6	0130.9	O423.43
12.00	0431.5	0431.9	0432.2	0432.5	0432.8	0433.2	0433.5	0433.8	0434.1	0434.5
12.10	8.4540	0435.1	0435.4	0435.8	0436.1	0436.4	0436.7	0437-1	0437.4	C437.7
12.20	0438.0	0438.4	0438.7	0439.0	0439.3	0439.7	0440.0	0440.3	0440.6	04/11.0
12.30	04413	0441.6	0441.09	0/1/15*3	0442.6	0/42.9	0443.2	0443.6	0443.9	0444.5
12.40	0441.5	0444.9	0445.5	0445.5	0445.8	0446°S	046.5	0446.8	0447.1	0447.5

Temperature, or

TABLE 3 IRON-CONSTANTAN (Continued)

		TAE	BLE 3	IRON-C	UNS I A	NIAN (Continu	ed)		
							Ret	erence J	unction,	32 °F
Millivolta	.00	.01	.02	.03	.04	₄ 05	.06	.07	•08	•09
12.50	0447.8	0448.1	0448.4	0448.8	0449.1	0449.4	0449.8	0450.1	0450.4	0450.7
12.60	0447.0	0451.4	0451.7	0452.0	0452.4	0452.7	0453.0	0453.3	0453.7	0454.0
12.70	0454.3	0454.6	0455.0	0455.3	0455.6	0455.9	0456.3	0456.6	0456.9	0457.2
12.70	0457.6	0457.9	0458.2	0458.5	0458.9	0459.2	0459.5	0459.8	0460.2	0460.5
	0460.8		-	0461.8	0462.1	0462.4	0462.8	0463.1	0463.4	0463.7
12.90	U40U+0	0461.1	0461.5	0407.0	0402.1	0402.4	0402.0	0402.1	040244	0402.1
	alich a	alıclı lı	alı Ch. G	olice o	oher h	olice 7	ALCC A	alice a	ohee'a	Oher o
13.00	0464.1	0464.4	0464.7	0465.0	0465.4	0465.7	0466.0	0466.3	0466.7	0467.0
13.10	0467.3	0467.6	0468.0	0468.3	0468.6	0468.9	0469.3	0469.6	0469.9	0470.2
13.20	0470.6	0470.9	0471.2	0471.5	0471.9	0472.2	0472.5	0472.8	0473.2	0473.5
13.30	0473.8	0474.1	0474.5	0474.8	0475.1	0475.4	0475.8	0476.1	0476.4	0476.7
13.40	0477.1	0477.4	0477.7	0478.0	0478.4	0478.7	0479.0	0479.3	0479.7	0480.0
	****	-1.00	-1.0.	01:01 7	alio. 6	ah0. 0	akon a	alina c	n1:00 0	01:00 =
13.50	0480.3	0480.6	0481.0	0481.3	0481.6	0481.9	0482.3	0482.6	0482.9	0483.2
13.60	0483.6	0483.9	0484.2	0484.5	0484.9	0485.2	0485.5	0485.8	0486.2	0486.5
13.70	0486.8	0487.1	0487.5	0487.8	0488.1	0488.4	0488.8	0489.1	0489.4	0489.7
13.80	0490.1	0490.4	0490.7	0491.1	0491.4	0491.7	0492.0	0492.4	0492.7	0493.0
13.90	0493.3	0493.7	0494.0	0494.3	0494.6	0495.0	0495.3	0495.6	0495.9	0496.3
46.00	21.00	akac a	alior a	0497.6	0497.9	0498.2	akon r	0498.9	0499.2	ahaa r
14.00	0496.6	0496.9	0497.2	-			0498.5			0499.5
14.10	0499.8	0500.2	0500.5	0500.8	0501.1 0504.4	0501.5	0501.8	0502.1	0502.4	0502.8
14.20	0503.1	0503.4	0503.7	0504.1	0507.6	0504.7 0508.0	0505.0 0508.3	0505.4 0508.6	0505.7 0508.9	0506.0
14.30 14.40	0506.3 0509.6	0506.7	0507.0	0507.3 0510.6	0510.9	0511.2	0511.5	0511.9	0512.2	0509.3
14.40	0503.0	0509.9	0510.2	0510.0	0510.9	0511.2	0211.2	0511.9	0512.2	V512.5
ah ro	DE40 B	0543 0	0542 5	0542 8	0514.1	0514.5	0514.8	0515.1	DE4E II	0515.8
14.50	0512.8	0513.2	0513.5	0513.8			-		0515.4	
14.60	0516.1	0516.4	0516.7	0517 • 1	0517.4 0520.6	0517.7 0521.0	0518.0 0521.3	.0518.4 0521.6	0518.7 0521.9	0519.0 0522.3
14.70	0519.3	0519.7	0520.0	0520.3				-		
14.80	0522.6	0522.9	0523.2	0523.6	0523.9	0524.2	0524.5	0524.9	0525.2	0525.5
i4.90	0525.8	0526.2	0526.5	0526.8	0527.1	0527.5	0527.8	0528.1	0528.4	0528.8
15.00	0529.1	0529.4	0529.7	0530.1	0530.4	0530.7	0531.1	0531.4	0531.7	0532.0
15.10	0532.4	0532.7	0533.0	0533.3	0533.7	0534.0	0534.3	0534.6	0535.0	0535.3
15.20	0535.6	0535.9	0536.3	0536.6	0536.9	0537.2	0537.6	0537.9	0538.2	0538.5
15.30	0538.9	0539.2	0539.5	0539.8	0540.2	0540.5	0540.8	0541.1	0541.5	0541.8
15.40	0542.1	0542.4	0542.8	0543.1	0543.4	0543.7	0544.1	05 44 .4	0544.7	0545.0
15.50	0545.4	0545.7	0546.0	0546.3	0546.7	0547.0	0547.3	0547.6	0548.0	0548.3
15.60	0548.6	0548.9	0549.3	0549.6	0549.9	0550.2	0550.6	0550.9	0551.2	0551.5
15.70	0551.9	0552.2	0552.5	0552.8	0553.2	0553.5	0553.8	0554.1	0554.5	0554.8
15.80	0555.1	0555.4	0555.8	0556.1	0556.4	0556.7	0557.1	0557小	0557.7	0558.0
15.90	0558.4	0558.7	0559.0	0559.3	0559.7	0560.0	0560.3	0560.6	0561.0	0561.3
16.00	0561.6	0561.9	0562.3	0562.6	0562.9	0563.2	0563.6	0563.9	0564.2	0564.5
16.10	0564.9	0565.2	0565.5	0565.8	0566.2	0566.5	0566.8	0567.1	0567.5	0567.8
16.20	0568.1	0568.4	0568.8	0569.1	0569.4	0569.7	0570.1	0570.4	0570.7	0571.0
16.30	0571.4	0571.7	0572.0	0572.4	0572.7	0573.0	0573.3	0573.7	0574.0	0574.3
16.40	0574.6	0575.0	0575.3	0575.6	0575.9	0576.3	0576.6	0576.9	0577.2	0577.6
16.50	0577.9	0578.2	0578.5	0578.9	0579.2	0579.5	0579.8	0580.2	0580.5	0580.8
16,60	0581.1	0581.5	0581.8	0582.1	0582.4	0582.8	0583.1	0583.4	0583.7	0584.1
16.70	0584.4	0584.7	0585.0	0585.4	0585.7	0586.0	0586.3	0586.7	0587.0	0587.3
16.80	0587.6	0588.0	0588.3	0588.6	0588.9	0589.3	0589.6	0589.9	0590.2	0590.6
16.90	0590.9	0591.2	0591.5	0591.9	0592.2	0592.5	0592.8	0593.2	0593.5	0593.8
17.00	0594.1	0594.5	0594.8	0595.1.	0595.4	0595.8	0596.1	0596.4	0596.7	0597.1
17.10	0597.4	0597.7	0598.0	0598.4	0598.7	0599.0	0599.3	0599.7	0600.0	0600.3
17.20	0600.6	0601.0	0601.3	0601.6	0601.9	0602.3	0602.6	0602.9	0603,2	0603.6
17.30	0603.9	0604.2	0604.5	0604.9	0605.2	0605.5	0605.8	0606.2	0606.5	0606.8
17.40	0607.1	0607.5	0607.8	0608.1	0608.4	0608.8	0609.1	0609,4	0609.7	0610.1

Temparature, OF

TABLE 3 IRON-CONSTANTAN (Continued)

							Refe	rence Ju	nction.	32 0 F
Millivolts	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
17.50	0610.4		0611.0	0611.4	0611.7	-	0612.4	-	0613.0	
17.60	0613.7	0614.0	0614.3	0614.6	0615.0	0615.3	0615.6	0615.9	0616.3	0616.6
17.70	0616.9	0617.2	0617.6	0617.9	0618.2		0618.9	0619.2	0619.5	0619.8
17.80	0620.2	0620.5	0620.8	0621.1	0621.5	0521.8	0622.1		0622.8	0623.1
17.90	0623.4	0623.7	0624.1	0624.4	0624.7	0625.0	0625.4	0625.7	0626.0	0626.3
-1.20		00.25*1	002.02	002.1	001.101	001170	002501	001.511	002000	001.013
18.00	c626.7	0627.0	0627.3	0627.6	0628.0	0628.3	0628.6	0628.9	0629.3	0629.6
18.10	0629.9	0630.2	0630,6	0630.9	0631.2	0631.5	0631.9	0632.2	0632.5	0632.8
18.20	0633.2	0633.5	0633.8	0634.1	0634.5	0634.8	0635.1	0635.4	0635.8	0636.1
18.30	0636.4	0636.7	0637.1	0637.4	0637.7	0638.0	0638.4	0638.7	0639.0	0639.3
18.40	0639.7	0640.0	0640.3	0640.6	0641.0	0641.3	0641.6	0641.9	0642.3	0642.6
18.50	0642.9	0643.2	0643.6	0643.9	0644.2	_	0644.9	0645.2	0645.5	0645.8
18.60	0646.2	0646.5	0646.8	0647.1	0647.5	0647.8	0648.1		0648.8	0649.1
18.70	0649.4	0649.7	0650.1	0650.4	0650.7	0651.0	0651.4	0651.7	0652.0	0652.4
18.80	0652.7	0653.0	0653.3	0653.7	0654.0	0654.3	0654.6	0655.0	0655.3	0655.6
18.90	0655.9	0656.3	0656.6	0656.9	0657.2	0657.6	0657.9	0658.2	0658.5	0658.9
19.00	0659.2	0659.5	0659.8	0660.2	0660.5	0660.8	0661.1	0661.5	0661.8	0662.1
19.10	0662.4	0662.8	0663.1	0663.4	0663.7	0664.1	0664.4	0664.7	0665.0	0665.4
19.20	0665.7	0666.0	0666.3	0666.7	0667.0	0667.3	0667.6	0668.0	0668.3	0668.6
19.30	0668.9	0669.3	0669.6	0669.9	0670.2	0670.6	0670.9	0671.2	0671.5	0671.9
19.40	0672.2	0672.5	0672.8	0673.2	0673.5	0673.8	0674.1	0674.5	0674.8	0675.1
19.50	0675.4	0675.8	0676.1	0676.4	0676.7	0677.1	0677.4	0677.7	0678.0	0678.4
19.60	0678.7	0679.0	0679.3	0679.7	0680.0	0680.3	0680.6	0681.0	0681.3	0681.6
19.70	0681.9	0682.3	0682.6	0682.9	0683.2	0683.6	0683.9	0684.2	0684.5	0684.9
19.80	0685.2	0685.5	0685.8	0686.2	0686.5	0686.8	0687.1	0687.5	0687.8	0688.1
19.90	0688.4	0688.8	0689.1	0689.4	0689.7	0690.1	0690.4	0690.7	0691.0	0691.4
20.00	0604.7	2602.2	2600.0	060- #						
20.10	0691.7 0695.0	0692.0	0692.3	0692.7	0693.0	0693.3	0693.7	0694.0	0694.3	0694.6
20.10	0698.2	0695.3	0695.6	0695.9	0696.3	0696.6	0696.9	0697.2	0697.6	0697.9
20.20		0698.5	0698.9	0699.2	0699.5	0699.8	0700.2	0700.5	0700.8	0701.1
20.40	0701.5	0701.8	0702.1	0702.4	0702.8	0703.1	0703.4	0703.7	0704.1	0704.4
20,40	0704.7	0705.0	0705.4	0705.7	0706.0	0706.3	0706.7	0707.0	0707.3	0707.6
20.50	0708.0	0708.3	0708.6	0708.9	0709.3	0709.6	0709.9	0710.2	0710.6	0710.9
20,60	0711.2	0711.5	0711.9	0712.2	0712.5	0712.8	0713.2	0713.5	0713.8	0714.1
20.70	0714.5	0714.8	0715.1	0715.4	0715.8	0716.1	0716.4	0716.7	0717.1	0717.4
20.80	0717.7	0718.0	0718.4	0718.7	0719.0	0719.3	0719.7	0720.0	0720.3	0720.6
20.90	0721.0	0721.3	0721.6	0721.9	0722.3	0722.6	0722.9	0723.2	0723.6	0723.9
21.00	0724.2	0724.5	0724.9	0725.2	0725.5	0725.8	0726.2	0726.5	0726.8	0727.1
21.10	0727.5	0727.8	0728.1	0728.4	0728.8	0729.1	0729.4	0729.7	0730.1	0730.4
21.20	0730.7	0731.0	0731.4	0731.7	0732.0	0732.3	0732.7	0733.0	0733.3	0733.6
21.30	0734.0	0734.3	0734.6	0735.0	0735.3	0735.6	0735.9	0736.3	0736.6	0736.9
21.40	0737.2	0737.6	0737.9	0738.2	0738.5	0738.9	0739.2	0739.5	0739.8	0740.2
21.50	0740.5	0740.8	0741.1	0741.5	0741.8	0742.1	0742.4	0742.8	0743.1	0743.4
	0743.7	0744.1	0744.4	0744.7	0745.0	0745.4	0745.7	0746.0	0746.3	0746.7
	0747.0	0747.3	0747.6	0748.0	0748.3	0748.6	0/48.9	0749.3	0749.6	0749.9
	0750.2	0750.6	0750.9	0751.2	0751.5	0751.9	0752.2	0752.5	0752.8	0753.2
	0753.5	0753.8	0754.1	0754.5	0754.8	0755.1	0755.4	0755.8	0756.1	0756.4
							, , , , ,		.,,,,,,,,,,	1,5011
	0756.7	0757.3	0757.6	0758.0	0758.3	0758.6	6.8570	0759.3	0759.6	0759.9
	0760.2	0760.6	0760.9	0761.2	0761.6	0761.9	0762.2	0762.5	0762.9	0763.2
	0763.5	0763.8	0764.2	0764.5	0764.8	0765.1	0765.5	0765.8	0766.1	0766.4
	0766.8	0767.1	0767.4	0767.7	0768.1	0768.4	0768.7	0769.0	0769.4	0769.7
22.40	0770.0	0770.3	0770.7	0771.0	0771.•3	0771.€	0/72.0	0772.3	0772.6	0772.9

Temperature, OP

TABLE 3 IRON-CONSTANTAN (Continued)

TABLE 3 IRUN-CUNSTANTAN (Continued)										
							Ref	erence a	unction,	32 °F
Millivolta	.00	.01	.02	.03	• 04	.05	.06	.07	.08	•09
22.50	0773.3	0773.6	0773.9	0774.2	0774.6	0774.9	0775.2	0775.5	0775.9	0776.2
22.60	0176.5	0776.8	0777.2	0777.5	0777.8	0778.2	0778.5	0778.8	0779.1	0779.5
22.70	0779.8	0780.1	0780.4	0780.8	0781.1	0781.4	0781.7	0782.1	0782.4	0782.7
22.80	0783.0	0783.4	0783.7	0784.0	0784.3	0784.7	0785.0	0785.3	0785.6	0786.0
22.90	0786.3	0786.6	0786.9	0787.3	0787.6	0787.9	0788.2	0788.6	0788.9	0789.2
		•	•						.,	.,
23.00	0789.5	0789.9	0790.2	0790.5	0790.8	0791.2	0791.5	0791.8	0792.1	0792.5
23-10	0792.8	0793.1	0793.4	0793.8	0794.1	0794.4	0794.8	0795.1	0795.4	0795.7
23.20	0796.1	0796.4	0796.7	0797.0	0797 4	0797.7	0798.0	0798.3	0798.7	0799.0
23.30	0799.3	0799.6	0800.0	0800.3	0800.6	0800.9	0801.3	0801.6	0801.9	0805.5
23.40	0802.6	0808.9	0803.2	0803.5	0803.9	0804.2	0804.5	0804.8	0805.2	0805.5
1.54 10	0002.40	0001.09	000312	0003.5	0003.9	000112	0004.5	000410	0005.2	0000
23.50	0805.8	0806.1	0806.5	0806.8	0807.1	0807.4	0807.8	0808.1	0808.4	0808.7
23.60	0809.1	0809.4	0809.7	0810.0	0810.4	0810.7	0811.0	0811.3	0811.7	0812.0
23.70	0812.3	0812.7	0813.0	0813.3	0813.6	0814.0	0814.3	0814.6	0814.9	0815.3
23.80	0815.6	0815.9	0816.2	0816.6	0816.9	0817.2	0817.5	0817.9	0818.2	0818.5
23.90	0818.8	0819.2	0819.5	0819.8	0820.1	0820.5	0820.8	0821.1	0821.4	0821.8
25.20	001010	0013.6	0017.5	0017.0	0050.T	002019	0020.0	0021.1	0021.4	0027*0
24.00	0822.1	0822.4	0822.7	0823.1	0823.4	0823.7	0824.0	0824.4	0824.7	0905.0
24.10	0825.3	0825.7	0826.0						-	0825.0
	0828.6			0826,3	0826.6	0827.0	0827.3	08?7.6	0827.9	0828.3
24,20		0828.9	0829.2	0329.6	0829.9	0830.2	0830.5	0830.9	0831.2	0831.5
24.30	0831.8	0832.2	0832.5	0832.8	0833.1	0833.5	0833.8	0834.1	0834.4	0834.8
24.40	0835.1	0835.4	0835.7	0836.1	0836.4	0836.7	0837.0	0837.4	0837.7	0838.0
al v-	-000	.000	.000	****	.0.0	-01	-01			
24.50	0838.3	0838.7	0839.0	0839.3	0839.6	0840.0	0840.3	0840.6	0840.9	0841.3
24.60	0841.6	0841.9	0842.2	0842.6	0842.9	0843.2	0843.5	0843.9	0844.2	0844.5
24.70	0844.8	0345.2	0845.5	0845.8	0846.1	0846.5	0846.8	0847.1	0847.4	0847.8
24.80	0848.1	0348.4	0848.7	0849.1	0849.4	0849.7	0850.0	0850.4	0850.7	0851.0
24.90	0851.3	0851.7	0852.0	0852,3	0852.6	0853.0	0853.3	0853.6	0853.9	0854.3
				_	_					_
25.00	0854.6	0854.9	0855.2	0855.6	0855.9	0856.2	0856.5	0856.9	0357.2	0857.5
25.10	0857.8	0858.2	0858.5	0858.8	0859.1	0859.5	0859.8	0860.1	0860.4	0860.8
25.20	0861.1.	0861.4	0861.7	0862.0	0862.4	0862.7	0863.0	0863.3	0863.7	0864.0
25.30	0864.3	0864.6	0865.0	0865.3	0865.6	0865.9	0866.3	0866.6	0866.9	0867.2
25.40	0867.6	0867.9	0868.2	0868.5	0868.9	0869.2	0869.5	0869.8	0870.2	0870.5
25.50	0870.8	0871.1	08715	0871.8	0872.1	0872.4	0872.8	0873.1	08/3.4	0873.7
25.60	0874.0	0874.4	0874,7	0875.0	0875.3	0875.7	0876.0	0876.3	0876.6	0877.0
25.70	0877.3	0877.6	0877.9	0878.3	0878.6	0878.9	0879.2	0879.6	0879.9	0880.2
25.80	0880.5	0880.9	0881.2	0881.5	0881.8	0882.1	0882.5	0882.8	0883.1	0883.4
25.90	0883.8	0884.1	0884.4	0884.7	0885.1	0885.4	0885.7	0886.0	0886.4	0886.7
26.00	0887.0	0887.3	0887.6	0.8880	0888.3	0888.6	0888.9	0889.3	0889.6	0889.9
26.10	0890.2	0890.6	0890.9	0891.2	0891.5	0891.9	0892.2	0892.5	0892.8	0893.1
26.20	0893.5	0893.8	0894.1	0894.4	0894.8	0895.1	0895.4	0895.7	0896.1	0896.4
26.30	0896.7	0897.0	0897.4	0897.7	0898.0	0898.3	0898.6	0899.0	0899.3	0899.6
26.40	0899.9	0900.3	0900.6	0900.9	0901.2	0901.6	0901.9	0902.2	0902.5	0902.8
		_								
26.50	0903.2	0903.5	0903.8	0904.1	0904.5	0904.8	0905.1	0905.4	0905.8	0906.1
26.60	0906.4	0906.7	0907.0	0907.4	0907.7	0908.0	0908.3	0908.7	0909.0	0909.3
26.70	0909.6	0909.9	0910.3	0910.6	0910.9	0911.2	0911.6	0911.9	0912.2	0912.5
26.80	0912.9	0913.2	0913.5	0913.8	0914.1	0914.5	0914.8	0915.1	0915.4	0915.8
26.90	0916.1	0916.4	0916.7	0917.0	0917.4	0917.7	0918.0	0918.3	0918.7	0919.0
				110						
27.00	0919.3	0919.6	0919.9	0920.3	0920.6	0920.9	0921.2	0921.6	0921.9	0922.2
27.10	0922.5	0922.8	0923.2	0923.5	0923.8	0924.1	0924.5	0924.8	0925.1	0925.4
27.20	0925.7	0926.1	0925.2	0926.7	0927.0	0927.4	0924.5	0928.0	0925.1	0928.6
27.30	0929.0	0929.3	0929.6	0929.9	0930.2	0930.6	0930.9	0931.2	0931.5	0931.9
27.40	0932.2	0932.5	0932.8	0933.1	0933.5	0933.8	0934.1	0934.4	0934.8	0935.1
61 +40	₩93C•C	923K*D	V736.0	√23.3 s .l.	V223+9	√233•0 •	しょうか・エ	U2311417	UJ.J.T+U	~,,,,,,.

Temperature, or

TABLE 3 IRON-CONSTANTAN (Continued)

		1 A	BLE 3	IKON-0	COMPLY	NTAN	Continu	req)		
							Re	ference .	Junction	. 32 °F
Millivolts	.00	.01	.02	•03	.04	.05	.06	.07	• 08	•09
27.50	0935-4	0935.7	0936.0	0936.4	0936.7	0937.0	0937.3		0938.0	0938.3
27.60	0938.6	0938.9	0939.2	0939.6	0939.9	0940.2	0940.5		0941.2	0941.5
27.70	0941.8	0942.1	0942.5	0942.8	0943.1	0943.4	0943.7	0944.1	0944.4	0944.7
27.80	0945.0	0945.3	0945.7	0946.0	0946.3	0946.6	0947.0		0947.6	0947.9
27.90	0948.2	0948.6	0948.9	0949.2	0949.5	0949.8	0950.2	0950,5	0950.8	0951.1
28.00	0951.4	0951.8	0952.1	0952.4	0952.7	0953.0	0953.4	0953.7	0954.0	0954.3
28.10	0954.6	0955.0	0955.3	0955.6	0955.9	0956.2	0956.6	0956.9	0957.2	0957.5
28.20	0957.8	0958.2	0958.5	0958.8	0959.1	0959.4	0959.8	0960.1	0960.4	0960.7
28.30	0961.0	0961.4	0961.7	0962.0	0962.3	0962.6	0963.0	0963.3	0963.6	0963.9
28.40	0964.2	0964.6	0964.9				-	-		
20.40	090412	0904.0	0904.9	0965.2	0965.5	0965.8	0966.2	0966,5	0966.8	0967.1
28.50	0967.4	0967.8	0968.1	0968.4	0968.7	0969.0	0969.4	0969.7	09/0.0	0970.3
28.60	0970.6	0971.0	0971.3	0971.6	0971.9	09/2.2	0972.6	0972.9	0973.2	0973.5
28.70	0973.8	0974.1	0974.5	0974.8	0975.1	0975.4	0975.7	0976.1	0976.4	0976.7
28.80	0977.0	0977.3	0977.7	0978.0	0978.3	0978.6	09/8.9	0979.2	0979.6	0979.9
28.90	0980.2	0980.5	0980.8	0981.2	0981.5	0981.8	0982.1	0982.4	0982.8	0983.1
					-0-4-2		-50		0,0000	0,0,0,0
29.00	0983.4	0983.7	0984.0	0984.3	0984.7	0985.0	0985.3	0985.6	0985.9	0986.3
29.10	0986.6	0986.9	0987.2	0987.5	0937.8	0988.2	0988.5	0988.8	0989.1.	0989.4
29.20	0989.8	0990.1	0990.4	0990.7	0991.0	0991.3	0991.7	0992.0	0992.3	0992.6
29.30	0992.9	0993.2	0993.6	0993.9	0994.2	0994.5	0994.8	0995.2	0995.5	0995.8
29.40	0996.1	0996.4	0996.7	0997.1.	0997.4	0997.7	0998.0	0998.3	0998.6	0999.0
29.50	0999.3	0999.6	0999.9	1000.2	1000.5	1000.9	1001.2	1001.5	1001.8	1002.1
29.60	1002.4	1002.8	1003.1	1003.4	1003.7	1004.0	1004.3	1004.7	1005.0	1005.3
29.70	1005.6	1005.9	1006.2	1006.6	1006.9	1007.2	1007.5	1007.8	1008.1	1008.5
29.80	1008.8	1.009 . 1.	1.009.4	1009.7	1010.0	1010.4	1010.7	1.011.0	1011.3	1011.6
29.90	1011.9	1012.3	1012.6	1.012.9	1013.2	1013.5	1013.8	1014.2	1014.5	1014.8
30.00	1015.1	1015.4	1015.7	1016.0	1016.4	1016.7	1017.0	1017.3	1017.6	1017.9
30.10	1018.3	1018.6	1018.9	1019.2	1.019.5	1019.8	1020.2			
30.20	1021.4	1021.7	1022.0	1022.4				1020.5	1.020.8	1021.1
30.30	1024.6				1022.7	1023.0	1023.3	1023.6	1023.9	1024.2
30.40		1024.9 1028.0	1025.2	1025.5	1025.8	1026.1	1026.5	1026.8	1027.1	1027.4
30.40	1027.7	1020.0	1028.3	1028.7	1029.0	1029.3	1029.6	1029.9	1030.2	1030.5
30.50	1030.9	1031.2	1031.5	1031.8	1032.1	1032.4	1032.7	1033.1	1033.4	1.033.7
30.60	1034.0	1.034.3	1034.6	1034.9	1035.3	1035.6	1035.9	1036.2	1036.5	1036.8
30.70	1037.1	1037.5	1.037 .8	1.038.1	1038.4	1038.7	1.039.0	1.039.3	1039.7	1040.0
30.80	1040.3	1.040.6	1040.9	1041.2	1041.5	1.041.8	1042.2	1042.5	1042.8	1.043.1
30.90	1043.4	1043.7	1044.0	1044.4	1044.7	1045.0	1045.3	1045.6	1.045.9	1.046.2
0		a5-,		20716			20170	101,740	3.0-1,313	3.01042.
31.00	1046.5	1046.9	2.047.2	1047.5	1.047.8	1.048.1	1048.4	1048.7	2.049.0	1,049,4
31.10	1049.7	1.050.0	1050.3	1.050.6	1.050.9	1051.2	1051.5	1051.9	1.052.2	1052.5
31.20	1052.8	1053.1	1053.4	1053.7	1054.0	1054.4	1.054.7	1055.0	1055.3	1055.6
31.30	1055.9	1.056.2	1.056.5	1056.9	1057.2	1057.5	1057.8	1058.1	1.058.4	1.058.7
31.40	1059.0	1059.3	1.059.7	1.060.0	1.060.3	1060.6	1060.9	1061.2	1061.5	1061.8
31.50	1062.1	1062.5	1062.8	1063.1	1.063.4	1063.7	1054.0	1064.3	1064.6	1064.9
31.60	1065.3	1065.6	1065.9	1066.2	1066.5	1065.8	1.067.1	1067.4	1067.7	1.068.1
31.70	1068.4	1058.7	1069.0	1069.3	1069.6	1.069.9	1070.2	1.070.5	1.070.9	10/1,2
31.80	1071.5	10/1.8	10/2.1	1072.4	1.072.7	1073.0	1073.3	1.073.6	1.074.0	1.074.3
31.90	10/4.6	1.074 • 9	10/5.2	1075.5	1075.8	1076.1	1076.4	2076.7	1077.1	1077,4
20.00	10000	1000 0	15110						4.	
32.00	1077.7	1.078.0	1078.3	1078,6	1.078.9	1079.2	10/9.5	1000.8	1.030.1	1030.5
32.10	1.080 •8	1081.1	1.081.4	1.081.7	1032.0	1032.3	1.082.6	1082.9	1.083 . 2	1.083.5
32.20	1083.9	1.08/1.2	1004.5	1.084.8	1085.1	1085.4	1.085.7	1036.0	1.086.3	1.086.6
32.30	1086.9	1.087.3	1087.6	1.087.9	1038.2	1.088.5	1,088,8	1089.1	1.089.4	1.039.7
32.40	1090.0	1090.3	1030°9	1091.0	1.091.+3	1.0916	1091.9	1.092.2	1002.5	1.092.8
						0				

Temperature, op

TABLE 3 IRON-CONSTANTAN (Continued)

		IAI	D L.E. J	IK OIY-C	70142 I V	MIAN				
							Ref	erence J	unction,	35 ok
Millivolta	•00	.01	•02	.03	•04	.05	•06	.07	.08	•09
32.50	1093.1	1093.4	1093.7	1094.0	1094.3	1.094.6	1095.0	1095.3	1095.6	1095.9
32.60	1096.2	1096.5	1096.8	1097.1	1097.4	1097.7	1098.0	1098.3	1098.6	1099.0
32.70	1099.3	1099.6	1099.9	1100.0	1100.3	1100.6	1101.0	1101.3	1101.6	1101.9
32.80	1102.2	1102.5	1102.8	1103.1	1103.5	1103.8	1104.1	1104.4	1104.7	1105.0
32.90	1105.3	1105.6	1106.0	1106.3	1106.6	1106.9	1107.2	1107.5	1107.13	1108.1
33.00	1108.4	1108.8	1109.1	1109.4	1109.7	1110.0	1110.3	1110.6	1110.9	1111.2
33.10	1111.6	1111.9	1112.2	1112.5	1112.8	1113.1	1113.4	1113.7	1114.0	1114.4
33.20	1114.7	1115.0	1115.3	1115.6	1115.9	1116.2	1116.5	1116.8	1117.1	1117.5
33-30	1117.8	1118.1	1118.4	1118.7	1119.0	1119.3	1119.6	1119.9	1120.2	1120.6
33.40	1120.9	1121.2	1121.5	1121.8	1122.1	1122.4	1122.7	1123.0	1123.3	1123.6
33.50		1124.3		1124.9					1,126.4	1126.7
33.60		1127.3	1127.7	1128.0	1128.3	1128.6			1129.5	1129.8
33.70		1130.4	1130.7	1131.0						
33.80	1133.2		1133.8	1134.1			1135.0			
33.90	1136.3	1136.6	1136,9	1137.2	1137.5	1137.8	1138.1	1138.4	1138.7	1139.0
34.00		1139.6				1140.9		-	1141.8	
34.10	1142.4			1143.3				1144.5		
34.20	1145.4			1146.4	-			1147.6		
34.30	1148.5			1149.4	1149.7	1150.0		1150.6	-	-
34.40	1151.5	1151.8	1152.1	1152.5	1152.8	1153.1	1153.4	1153.7	1154.0	1154.3
nh				***** "	4455 0		4456 h	4456 P		
34.50		1154.9		1155.5			1156.4	1156.7		
34.60	1157.6	1157.9		1158.5				1159.7	1160.0	_
34.70	1160.7	1161.0	1161.3		1161.9			1162.8	1163.1	-
34.80	1163.7		1164.3	1164.6 1167.6				1165.8 1168.8	1166.1 1169.1	
34.90	1166.7	1167.0	1167.3	1107.0	1107.9	1100.2	1100.5	1100.0	1109.1	1109.4
35.00	1169.7	1170.0	1.170.3	1170.6	1170.9	1171.2	1171.5	1171.8	1172.1	1172.4
35.10	1172.7	1173.0	1173.3	1173.6	1173.9	1174.2	1174.5	1174.8	1175-1	1175.4
35.20	1175.7	1176.0	1176.3	1176.7	1177.0	1177.3	1177.6	1177.9	1178.2	1178.5
35.30	1178.8	1179.1	1.179,4	1.179.7	1180.0	1180.3	1180.6	1180.9	1181.2	1181.5
35.40	1181.8	1182.1	1182.4	1182.7	1183.0	1183.3	1183.6	1183.9	1184.2	1:84.5
35.50	1184.8			1185.7			1186.6		1187.1	
35,60	1187.7	1188.0	1188.3	1188.6	1188.9		1189.5		1190.1	
35.70	1190.7	1191.0	1191.3		1191.9	1192.2	1192. 5		1193.1	
35 . 80	1193.7	1194.0	1194.3	1194.6	1194.9	1195.2		1195.8	1196.1	
35.90	1196.7	1197.0	1197.3	1197.6	1197.9	1198.2	1198.5	1198.8	1199.1	1199.4
_										
36.00	1199.7	1200.0	1200.3		1200.9			1201.8		
36.10	1202.7	1203.0	1203.2		1203.8	1204.1	1204.4	1204.7	1205.0	1205.3
36.20	1205.6	1205.9		1206.5		1207.1	1207.4	1207.7	1208.0	
36.30	1208.6	1208.9	1209.2	1209.5	1209.8	1210.1	1210,4	1210.7	1211.0	1211.3
36.40	1211.6	1211.8	1212.1	1212.4	1212.7	1213.0	1213.3	1213.6	1213.9	1214.2
26 50	101h 5	1214.8	101E 1	4045 JI	1215.7	1216.0	1216.3	1016 6	1016 0	1047 0
	1214.5		1215.1 1218.1	1218.4	1218.6		1219.2	1219.5	1216.9	1217.2
	1217.5	1220.7	1221.0		1221.6		1222.2	1222.5	1219.8	1220.1
36.70		-				1224.8		-		-
36.80 36.00	1223.4			1224.2		1227.8	1225.1	1225.4	1225.7	1226.0
36.90	ر. 20×سد	1550.0	TECO.A	75 1 45	1561 • D	1221.0	12.00.1	1220.4	1228.7	1229.0
27 00	1229.2	1000 "	1220 P	1230.1	4030 Ji	1230.7	1231.0	1001 0	1231.6	4024 0
37.00										-
	1232.2		1232.8	1233.1		1233.7	1233.9	1234.2		-
37.20	1235.1		1235.7	1236.0	1236.3	1236.6	1236.9	1237.2		
37.30	1238.0 1241.0	1238.3 1241.3	1.238.6 1.241.6	1238.9 1241.9	1239.2	1239.5 1242.4	1239.8 1242.7	1240.1 1243.0	1240.4 1243.3	1240.7 1243.6
37.40	V	Ter-147	ALT-TAL B U				*******	.c.+.j.v		TC42+0
				Tempe	rature,	∘.ħ				

TABLE 3 IRON-CONSTANTAN (Continued)

		IAD	LE J	IK UN-C	ONS I A	AI AIA (
							Refe	erence Ju	nction,	3≥ ° 1≥
Millivolta	.00	.01	.02	.03	· O/I	.05	.06	.07	.08	.09
37.50	1243.9	1244.2	1244.5	1244.8	1245.1	1245.4	1245.6	1.245.9	1246.2	1246.5
37.60	1246.8	1247.1	1247.4	1247.7	1248.0	1248.3	1248.6	1248.9	1249.2	1249.4
37.70	1249.7	1250.0	1250.3	1250.6	1250.9	1251.2	1251.5	1251.8	1252.1	1252.4
37.80	1252.6	1252.9	1253.2	1253.5	1253.8	1254.1	1254.4	1254.7	1255.0	1255.3
37.90	1255.6	1255.8	1256,1	1256,4	1256.7	1257.0	1257.3	1257.6	1257.9	1258.2
38.00		1258.8	1259.0	1259.3		1259.9	1260.2	1260.5	1260.8	1261.1
38.10	1261.4	1261.7	1262.0	1262.2	1262.5	1262.8	1263.1	1263.4	1263.7	1264.0
38.20	1264.3	1264.6	1264.9	1265-1	1265.4	1265.7	1266.0	1266.3	1266.6	1266.9
38.30	1267.2	1267.5	1267.7	1268.0	1268.3	1268.6	1268.9	1269.2	1269.5	1269.8
38,40	1270.1	1270.4	1270.6	1270.9	1271.2	1271.5	1271.8	1272.1	1272.4	1272.7
38.50	1273.0	1273.2	1273.5	1273.8	1274.1	1274.4	1274,7	1275.0	1275.3	1275.6
38.60	1275.8	1276.1	1276.4	1276.7	1.277.0	1277.3	1277.6	1277.9	1278,2	1278.4
38.70	1278.7	1279.0	1279.3	1279.6	1279.9	1280.2	1280.5	1280.8	1281.0	1281.3
38.80	1281.6	1281.9	1282.2	1282.5	1282.8	1283.1	1283.3	1283.6	1283.9	1284.2
38.90	1284.5	1284.8	1285.1	1285.4	1285.7	1285.9	1286.2	1286.5	1286.8	1287.1
39.00	1287.4	1287.7	1288.0	1288.2	1288.5	1288.8	1289.1	1289.4	1289.7	1290.0
39.10	1290.3	1290.5	1290.8	1291.1	1291.4	1291.7	1292.0	1292.3	1292.6	1292.8
39.20	1293.1	1293.4	1293.7	1294.0	1294.3	1294.6	1294.9	1295.1	1295.4	1295.7
39.30	1296.0	1296.3	1296.6	1296.9	1297.2	1297.4	1297.7	1298.0	1298.3	1298.6
39.40	1298.9	1299.2	1299.4	1299.7	1300.0	1300.3	1300.6	1300.9	1301.2	1301.5
_										
39.50	1301.7	1302.0	1302.3	1302.6	1302.9	1303.2	1303.5	1303.7	1304.0	1304.3
39.60	1304.6	1304.9	1305.2	1305.5	1305.7	1306.0	1306.3	1306.6	1306.9	1307.2
39.70	1307 • 5	1307.8	1308.0	1308.3	1308.6	1308.9	1309.2	1309.5	1309.8	1310.0
39.80	1310.3	1310.6	1310.9	1311.2	1311.5	1311.8	1312.0	1312.3	1312.6	1312.9
39.90	1313.2	1313.5	1313.8	1314.0	1314.3	1314.6	1314.9	1315.2	1315.5	1315.8
39.90	737300	1313.5	131340	1314.0	17140	1774.0	T)T4.9	131946	ر و ریدن	1319.0
40.00	1316.0	1316.3	1316.6	1316.9	1317.2	1317.5	1317.8	1318.0	1318.3	1318.6
40.10	1318.9	1319.2	1319.5	1319.7	1320.0	1320.3	1320.6	1320.9	1321.2	1321.5
40.20	1321.7	1322.0	1322.3	1322.6	1322.9	1323.2	1323.5	1323.7	1324.0	1324.3
40.30	1324.6	1324.9	1325.2	1325.4	1325.7	1326.0	1326.3	1326.6	1326.9	1327.2
40.40	1327.4	1327.7	1328.0	1328.3	1328.6	1328.9	1329.1	1329.4	1329.7	1330.0
40,40	2011	202111	1)2010	10000	10000	22,000	202712	4.7274.	-0	
40.50	1330.3	1330.6	1330.9	1331.1	1331.4	1331.7	1332.0	1332.3	1332.6	1.332.8
40.60		1333.4	1333.7	1334.0	1334.3	1334.5	1334.8	1335.1	1335.4	1335.7
	1333.1						1337.7	1338.0	1338.2	1338.5
40.70	1336.0	1336.3	1336.5	1336.8	1337 • 1	1337.4				1341.4
40.80	1338.8	1339.1	1339.4	1339.7	1339.9	1340.2	1340.5	1340.8	13/11.1	
40.90	1341.6	1341.9	1342.2	1342.5	1342.8	1343.1	1343.3	1343.6	1343.9	1344.2
							40146.0	anhe e	anlız n	4000 0
41.00	1344.5	1344.8	1345.0	1345.3	1345.6	1345.9	1346.2	13/16.5	1346.7	1347.0
41.10	1347.3	1347.6	1347.9	1348.2	1348.4	1348.7	1349.0	1349.3	1349.6	1349.9
41.20	1350.1	1350.4	1350.7	1351.0	1351.3	1351.6	1351.8	1352.1	1352.4	1352.7
41.30	1353.0	1353.3	1353.5	1353.8	1354.1	1354.4	1354.7	1355.0	1355.2	1355.5
41.40	1355,8	1356.1	1356.4	1356.7	1356.9	1357.2	1357.5	1357.8	1358.1	1358.4
							_			
41.50	1358.6	1358.9	1359.2	1359.5	1359.8	1360.1	1360.3	1360.6	1360.9	1361.2
41.60	1361.5	1361.7	1362.0	1362.3	1362.6	1362.9	1363.2	1363.4	1363.7	1364.0
41.70	1364.3	1364.6	1364.9	1365.1	1365.4	1365.7	1366.0	1366.3	1366.5	1366.8
41.80	1367.1	1367.4	1367.7	1368.0	1368.2	1368.5	1368.8	1369.1	1369.4	1369.7
41.90	1369.9	1370.2	1370.5	1370.8	1371.1	1371.3	1371.€	1371.9	1372.2	1372.5
42.00	1372.8	1373.0	1373.3	1373.6	1373.9	1374.2	1374.5	1374 · 7		1375.3
42.10	1375.6	1375.9	1376.1	1376.4	1376.7	1377.0	1377.3	1377.6	1377,8	137%-1
42.20	1378.4	1378.7	1379.0	1379.8	1379.5	1379.8	1380.1	1380.4	1500.7	3.300.5
42.30	1381.2	1381.5	1381.8	1388.1	1382.5	1352.6	1382.7	1353.1.	1585.5	1333.7
42.40	1384.0	1386.3	1,395 . 6	1302.9	133548	1355.4	1385.7	1350.0	1,500.3	1530.6
	-			Ps.	mperatur					

TABLE 3 IRON-CONSTANTAN (Continued)

		100	, <u></u>	III OII - C	OIGIA		20111110	u,		
							Ref	erence Ju	metion,	32°°F
Millivolts	.00	.01	.02	.03	.04	.05	• Où	.07	.08	.09
42.50	1386.8	1327 .1	1387.4	1387.7	1388.0	1383.3	1338.5	1338.8	1339.1	1389.4
42.60	1389.7	1389.9	1390.2	1390.5	1390,3	1391.1	1391.3	1391.6	1391.9	1392.2
42.70	1392.5	1352.6	1393.0	1393.3	1393.6	1393.9	1394.2	1394.4	1394.7	1395.0
42.80	1395.3	1395.6	1395.8	1390.1	1396.4	1390.7	1397.0	1397.3	1397.5	1397 - 9
42.90	1398.1	1398.4	1398.7	1398.9	1399.2	1399.5	1399.8	1400.1	1400.3	1400.6
43.00	1400.9	1401.2	1401.5	1401.3	1402.0	1402.3	1402.6	1402.9	1403.2	1403.4
43.10	1403.7	1404.0	1404.3	1404.6	1404.8	1405.1	1405.4	1405.7	1406.0	1406.2
			_							
43.20	1406.5	1406.8	1407.1	1407.4	1407.7	1407.9	1408.2	1403.5	1408.8	1409 1
43.30	1409.3	1409.6	1409.9	1410.2	1410.5	1410.7	1411.0	1411.3	1411.6	1411.9
43.40	1412.1	1412.4	1412.7	1413.0	1413.3	1413.6	1413.8	1414.1	1414.4	1414.7
43.50	1415.0	1415.2	1415.5	1415.8	1416.1	1416.4	1416.6	1416.9	1417.2	1417.5
43.60	1417.8	1418.0	1418.3	1418.6	1418.9	1400.2	1419.4	1419.7	1420.0	1420.3
43.70	1420.6	1420.3	1421.1	1421.4	1421.7	1422.0	1422.3	1422.5	1422.8	1423.1
43.80	1423.4	1423.7	1423.9	1424.2	1424.5	1424.8	1425.1	1425.3	1425.6	1425.9
43.90	1426.2	1426.5	1/126.7	1427.0	1/127 - 3	1427.6	1427.9	1438.1	1428.4	1428.7
-13.70	£120 11.	1.1.0.7	212001	2.1.110	30.01.0	212110	2010-1-07	A	3.120	14504
111.00	1429.0	1429.3	1429.5	1429.8	1/130 - 1	1430.4	1430.7	1430.9	1431.2	alina r
										1431.5
44.10	1431.8	1432.1	1432.4	1432.6	1432.9	1433.2	1433.5	1433.8	1434.0	1434.3
44.20	1434.6	1434.9	1435.2	1435.4	1435.7	1436.0	1.436.3	1436.6	1436.8	1437.1
44.30	1437.4	1437.7	1438.0	1438.2	1438.5	1438.8	1439.1	1439.4	1439.6	1439.9
44.40	1440.2	1440.5	1440.8	1441.0	1441.3	1441.6	1441.9	1442.2	1442.4	1442.7
44.50	1/43.0	1443.3	1443.6	1443.8	1444.1	1444.4	1444.7	1445.0	1445.2	1445.5
44.60	1445.8	1446.1	1446.4	1446.6	1446.9	1447.2	1447.5	1447.8	1448.1	1448.3
44.70	1448.6	1448.9	1449.2	1449.5	1449.7	1450.0	1450.3	1450.6	1450.9	1451.1
44.80	1451.4	1451.7	1452.0	1452.3	1452.5	1452.8	1453.1	1453.4	1453.7	1453.9
44.90	1454.2	1454.5	1454.8	1455.1	1455.3	1455.6	1455.9	1456.2	1456.5	1456.7
45.00	1457.0	1457.3	1457.6	1457.9	1458.1	1458.4	1458.7	1459.0	1459.3	1459.5
45.10	1459.8	1460.1	1460.4	1460.7	1460.9	1461.2	1461.5	1461.8	1462.1	1462.4
45.20	1462.6	1462.9	1463.2	1463.5	1463.8	1464.0				
							1464.3	1464.6	1464.9	1465.2
45.30	1465.4	1465.7	1466.0	1466.3	1/166.6	1466.8	1467.1	1467.4	1467.7	1468.0
45.40	1468.2	1468.5	1468.8	1469.1	1469.4	1 469.6	1469.9	1470.2	1470.5	1470.8
45.50	1471.0	1471.3	1471.6	1471.9	1472.2	1472.4	1472.7	1473.0	1473.3	1473.6
45.60	1473.9	1474.1	14.74.4	1474.7	1475.0	1475.3	1475.5	1475.8	1476.1	1476.4
45.70	1475.7	1476.9	1477.2	1477.5	1/177.8	1478.1	1478.3	1478.6	1478.9	1479.2
45.80	1479.5	1479.7	1.480.0	1480.3	1480.6	1480.9	1481.1	1481.4	1481.7	1482.0
45.90	1482.3	1482.5	1482.8	1483.1	1.483 • 4	1483.7	1454.0	1484.2	1484.5	1484.8
-		-		-				-		
46.00	1485.1	1485.4	1,485.6	1485.9	1486.2	1486.5	1486.8	1,487.0	1487.3	1487.6
46.10	1487.9	1488.2	1488.4	1488.7	1489.0	1489.3			-	
46.20						_	1489.6	1,489.8	1490.1	1490.4
	1490.7	1491.0	1/191.3	1491.5	1491.8	1492.1	1492.4	1492.7	1492.9	1/193.2
46.30	1493.5	1493.8	1494.1	1494.3	1494.6	1494.9	1495.2	1495.5	1495.7	1496.0
46.40	1496,3	1496.6	1496.9	1497.2	1497.4	1497.7	1498.0	1.498.3	1498.6	1498.8
46.50	1499•1	1499.4	1.499 • 7	1500.0	1500.2	1500.5	1500,8	1501.1.	1.501.4	15016
46.60	1501.9	1502.2	1502.5	1502.8	1503.1	1503.3	1503.6	1503.9	150/1.2	1504.5
46.70	1504.7	1505.0	1505.3	1505.6	1505.9	1506.1	1506.4	1506.7	1507.0	1507.3
46.80	1507.6	1507.8	1508.1	1508.4	1508.7	1509.0	1509.2	1509.5	1509.8	1510.1
46.90	1510.4	1510.6	1510.9	1511.2	1511.5	1511.8	1512.1	1512.3	1512.6	-
,0	-,,		~~~~ · /	∟• المدار ال	از قاد ماراد	∪ • بليدور ٠٠٠	باز چنګند تر بند		ACCION O	1512.9
h7 00	4542.0	4540 5	1643 7	acab o	arab o	Arab C	acab o	4545.0	4546 3	4545 "
47.00	1513.2	1513.5	1513.7	1514.0	1514.3	1514.6	1514.9	1515•2	1515.4	1515.7
47 • 1.0	1516.0	1516.3	1516.6	1516.8	1517.1	1517.4	1517.7	1518.0	1518.3	1518.5
47.20	1.51.8 . 8	1519.1	1519.4	1519.7	1519.9	1520.2	1.520.5	1520.8	1521.1	1521.4
47.30	1521.6	1521.49	1522.2	1522.5	1522.8	1523.0	1523.3	1523.6	1523.9	1524.2
47.40	1524.5	1524.7	1525.0	1525.3	1525.6	1525.9	1526.1	1526.4	1586.7	1527.0

Temperature, or

TABLE 3 IRON-CONSTANTAN (Concluded)

								Reference	Junetic	on, 32 ° F
Millivolts	.00	.01	.02	.03	.04	.05	.06	.07	80.	•09
47.50	1527.3	1527.6	1527.8	1528.1	1528.4	1528.7	1529.0	1529.2	1529.5	1529.8
47.60	1530.1	1530.4	1530.7	1530.9	1531.2	1531.5	1531.8	1532.1	1532.4	1532.6
47.70	1532.9	1533.2	1533.5	1533.8	1534.0	1534.3	1534.6	1534.9	1535.2	1535+5
47.80	1535.7	1536.0	1536.3	1536.6	1536.9	1537 . 2	1537.4	1537.7	1538.0	1538.3
47.90	1538.6	1538.8	1539.1	1539.4	1539.7	1540.0	1540.3	1540.5	1540.8	15/11.1
48.00	1541.4	1541.7	1542.0	1542.2	1542.5	1542.8	1543.1	1.543.4	1543.7	1543.5
48.10	1544.2	1544.5	1544.8	1545.1	1545.4	1545.6	1345.9	1546.2	1546.5	1546.8
48.20	1547.0	1547.3	1547.6	1547.9	1548.2	1548.5	1548.7	1549.0	1549.3	1549.6
48.30	1549.9	1550.2	1550.4	1550.7	1551.0	1551.3	1551.6	1551.9	1552.1	1552.4
48.40	1552.7	1553.0	1553.3	1553.6	1553.8	1554.1	1554.4	1554.7	1555.0	1555.3
48.50	1555.5	1555.8	1.556.1	1556.4	1556.7	1557.0	1557.2	1557.5	1557.8	1558.1
48.60	1558.4	1558.7	1559.0	1559.2	1559.5	1559.8	1560.1	1560.4	1560.7	1560.9
48.70	1561.2	1561.5	1561.8	1562.1	1562.4	1562.6	1562.9	1563.2	1563.5	1563.8
48.80	1564.1	1564.3	1564.6	1564.9	1565.2	1565.5	1565.8	1566.1	1566.3	1566.6
48.90	1566.9	1567.2	1567.5	1567.8	1568.0	1568.3	1568.6	1568.9	1569.2	1569.5
40.90	1000.9	1001.2	.0001.5	1501.0	1500.0	190013	1500.0	1500.5	1509.2	1509.5
49.00	1569.7	1570.0	1570.3	1570.6	1570.9	1571.2	1571.5	1571.7	1572.0	1572.3
49.10	1572.6	1572.9	1573.2	1573.4	1573.7	1574.0	1574.3	1574.6	1574.9	1575.2
49.20	1575.4	1575.7	1576.0	1576.3	1576.6	1576.9	1577.1	1577.4	1577.7	1578.0
49.30	1578.3	1578.6	1578.9	1579.1	1579.4	1579.7	1580.0	1580.3	1580.6	1580.9
49.40	1581.1	1581.4	1581.7	1582.0	1582.3	1582.6	1582.8	1583.1	1583.4	1583.7
					_		_			
49.50	1584.0	1584.3	1584.6	1584.8	1585.1	1585.4	1585.7	1586.0	1.586.3	1586.6
49.60	1586.8	1587.1	1587.4	1587.7	1.588.0	1588.3	1588-6	1588.8	1589.1	1589.4
49.70	1589.7	1590.0	1590.3	1590.6	1590.8	1591.1	1591.4	1591.7	1592.0	1592.3
49.8c	1592.6	1592.8	1593.1	1593.4	1593.7	1594.0	1594.3	1594.6	1594.9	1595.1
49.90	1595.4	1595.7	1596.0	1596.3	1596.6	1596.9	1597 • 1	1597.4	1597.7	1598.0

Temperature, ^oF

TABLE 4
TEMPERATURE VS MILLIVOLTS FOR CHROMEL-CONSTANTAN THERMOCOUPLES

LEMPER	CATURE	A2 WIT	T.IVOL.	15 FOR	CTIKON	MEL-CO	MATEM	I PIALI	E KMUC	UUPLES
							Re	ference	Junction	, 32 °F
Mtlitvo.ta	.00	.01	.0%	.03	.04	.05	.00	.07	20.	.09
-07.00	-0275.4	-0275.9	-0276.5	-0277.0	-0277.6	-0273.1	**0073.7	-0279.2	-0279.8	-0280.4
-07.80	~0269.9	-02/0.5	-0271.0	-0271.6	-0272.1	-02/2.7	-0273.2	-0273.8	-0274.3	-0271:.8
-07.70	-0264.6	-0265.1	~0265.6	0266.2	~c266.7	~0267.::	8.7330	-0268.3	0868.9	-0269.4
07.60									-0263.5	
-07.50									"0258.2	
-07.40	~0248.8	~0249.3	8.6450-	0250.3	~0250.9	~0251.4	-0251.9	.0252.4	~0252.9	~0253.5
-07.30	-0243.7	-0244.2	~0244.7	-0245.2	~0245.7	~0246.2	~0246.7	~02h7.2	~ogly.8	~0248.3
~07,20									~0242.6	
-07.10									-0237.6	
-07.00									-0232.6	
-06.90	~0223.7	0224.2	-0224.7	~0225.2	-0225.7	-0226.2	-0226.7	-0227.1	-0227.6	-0228.1
-06.80									-0222.7	
-06.70									-0217.9	
-06.60									-0713.1	
-06.50									-0208.4	
							• •			
.06.10	-0200.1	-0200.5	-0201.0	-0201,li	~0201.9	-020a.4	0202.8	-0203.3	~0203.8	-0204.2
-06.30									-0199.1	
-06.30									-0194.6	
~06.10									-0190.1	
-06.00									~0185.6	
							,			
~05.90	~0177.7	-0173.1	-0178.5	-0179.0	-0179.4	-0179.9	~0180.3	0180.7	-0181.2	-0181.6
-05.80									0176.8	
70.70									-0172.5	
-05.60									-0168.2	
-05.50									-0163.9	
							3.0		-2545	020.0
-05.40									~0159.7	
-05.30									**0155 • 6	
05.20									0151.5	
~05.10	-014h-S	0144.6	01/15.0	-0145.4	-0145.8	-03/16*55	0146.6	~01/17.0	··0147.4	01/17.8
-05.00	-0140.2	-0140.6	-01/11.0	-Cipi P	-0141.8	~0142,2	-01/1:1.6	~01/13.Q	0143.4	~01/13.8
-04.90									-0139 • 4	
-04.80									-0135 · 4	
-04.70									-0131.5	
-04.60	-0124.5	-015/1-9	-0125-3	-0125.7	-0150.0	*0126.4	**0126.5	**0127.2	0127.6	-0158.0
-04.50	-0120.7	-0121.0	-0181.4	0131.8	~01001.	~0122.6	-0123.0	~0123.3	~00.63.7	~0129.1
-04.40	~0110.9	0117.2	-0117.6	-0118.0	~0114.4	"0113.3	0173-1	-0119.5	0119.9	10120.3
··0/1.30	-0113.1	~0113.5	-01.13.8	-011/:.:	01.14.6	0115.0	-0113	-03.15.7	00116.1	101.16+5
04*50	-0109.3	-0109.7	0110.1	-0110.5	-0110.8	-0111	"G114.6	-0445-0	~0110.3	~01.12.7
-04.10									0100-6	
01.00	-0101.9	-0108.3	-0102.7	0103.0	-0103.4	.0103.8	-010/1.:	~010h.5	010/1.0	~0105.3
-03.90	-0008.3	00J3.6	-0077.0	-000% 1:	-0057.7	-0,500.1	-0100•>	1,000	0101*;;	n01,01. _* 6
-03.30	0094.6	-0095.0	~00Tj.4	-0095.7	-0000.1	~100/(+,-{)	005g	~00 77 . 11	~0007Y•6	
-03.70									~2003.9	
•03.60	-0037. <i>l</i> ;									
~63.50	~0083.9	9034.2	003/:•0	-000H.1	-60B ₂₊₃	-00"5.7	00:30*0	$((O(k)_{O,\bullet})_k$	~0056.7	-0037.1
-03.40	-0080.3									
-03.30	-00/6.B		ر•١٢٥٥٠-	-0077.0	ook8*t.	0075. · ·	00452-2	~9079.3	1100γ∋)t.	~0080.0
-03.20	oo/3•3	~0073.7	0041:•0	~007!L.	oc34.4	000/2+1	004.**	~oγ5• ^E	···0076-1	~0076.5
-03.10	··0069.8									
-03.00	-0066+3									
						0				

Temperature, $^{\alpha}\mathbb{P}$

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							Ref	erence J	unction,	32 °F
Miliivolta		.01	• 02	.03	.Oh	.05	•06	• 07	.03	.09
~02.90								~0065,3		
-02.80								-0061.9		
~02.70								-0058.4		
-02.60								-0055.0		
~02.50	-0049.2	-0049.6	-0049.9	-0050.2	-0050.6	-0050.9	-0051.3	-0051.6	-0051.9	-0052+3
-02.40	-0045.8	-0046.2	-0046.5	-0046.8	-0047.2	-0047.5	-0047.9	-0048.2	~00H8.5	e.3400~
-02,30								-0044.8		
-02.20								-0041.4		
-02.10								~0038.1		
-02.00	-0032.3	-0032.7	-0033.0	-0033.4	-0033.7	-0034.0	-0034.4	-0034.7	-0035.0	-0035.4
-01.90								-0031.3		
-01.80								-0023.0		
-01.70								-0024.6		
-01.60								~0021.3		
-01.50	-0015.6	-0016.0	-0016.3	-0016.6	-0017.0	-0017.3	-0017.6	-0018.0	"0013·3	-0018-6
-01.40	-0012.3	-0012.6	-0013.0	~0013.3	-0013.6	-001/1.0	-0014.3	-0014.6	-0015.0	-0015.3
-01.30			-					~0011.3	-	
-01.20								-0007.9		
-01.10								-0004.0		
~01.00	0000.7	0000.4	0000.4	0000.1	-0000.3	-0000.6	~0000.9	-0001.3	-0001.6	-0001.9
-00.90	0003.9	0003.6		0005.9	0002.6	0002.3	0002.0	0001.7	0001.3	0001.0
-00.80	0007.0	0006.7	0006.4	0006.1	0005.8	0005.5	0005.1	0004.8	000%.5	0004.2
-00.70	0010.2	0009.9	0009.6	0009.3	0008.9	0008.6	0008.3	0.8000	0007.7	0007.4
-00.60	0013.4	0013.0	0012.7	0012.4	0012.1	0011.8	0011.5	0011.1	0010.3	0010.5
-00.50	0016.5	0016.2	0015.9	0015.5	0015.2	0014.9	0014.6	0014.3	0014.3	0013.7
						0				
-00.40	0019.6	0019.3	0019.0	0018.7	0018.4	0018.1	0017.7	0017.4	0017.1	0016.8
-00.30	0022.7	0022.4	0022.1	0021.8	0021.5	0021.2	0020.9	0020.6	0020.2	0019.9
-00.20	0025.8	0025.5	0025.2	0024.9	0024.6	0024.3	0024.0	0023.7	0023.4	0023.0
-00,10	0028.9	0028.6	0028.3	0028.0	0027.7	0027.4	0027.1	0026.8	0026.5	0026.2
-00.00	0032.0	0031.7	0031.4	0031.1	0030.8	0030.5	0030.2	0029.9	0029.6	0029.3
00,00	0032.0	0032.3	0032.7	0033.0	0033.3	0033.6	0033.9	0034.2	0034.5	0034.8
00.10	0035.1	0035.4	0035.7	0036.0	0036.4	0036.7	0037.0	0037.3	0037.6	0037.9
00.20	0038.2	0038.5	0038.8	0039.1	0039.4	0039.7	00/10.0	00/10.3	0040.6	0041.0
∞.30	0041.3	0041.6	0041.9	0042.2	0042.5	0042.8	0043.1	00/13.4	0043.7	00/11.0
00.40	0044.3	0044.6	0044.9	0045.2	0045.5	0045.8	0046.1	0046.4	00/16.7	0047.1
	aaku b	ooku s	cato c	ookt) a	ooli O	0010 0	oolu: o	ooko ::	ooko 9	0000
00.50	0047.4	0047.7	00/18.0	0043.3	0048.6	0003.9	00/19.2	00/19.5	8.0000	0050.1
00.60	0050.4	0050.7	0051.0	0051.3	0051.6	0051.9	0050.0	0052.5	0058.8	0053.1
00.70 00.80	0053.4	0053.7	0054.0	0054.3	0054.6 0057.6	0057.9 0057.9	0055.2	0055.5	0055.8 0058.9	0050 . 1
00.60	0056.4	0056.7 0059.8	0057.0	0060.4	0050.7	0057.9	0050.3	0050.5	0051.9	0060*8
00,50	0059.5	0059.0	0000.1	000041	1.0000	0001.0	0001.3	0.000	0001.5	000. •/:
01.00	0062.5	0062.8	0063.1	0063.4	0063.7	0054.0	0034.3	0.064.6	0054.7	0065.1
01.10	0065.4	0065.7	0066.0	0066.3	0066.6	0066.9	0067.2	0057.5	0067.5	0063.1
01.20	0068.4	0068.7	0069.0	0069.3	0069.6	0069.9	00/0.:	0070.5	0070.	0071.1
01.30	0071.4	0071.7	0072.0	0072.3	0072.6	0072.9	0073.0	00/5.5	0073.5	2074.1
61.40	0074.4	0074.7	0.070,0	0375.3	0075 •6	0075.9	οσγωμε	0076.5	7• 3Yec	00,77.00
04.50	00777	00:77 (9077.9	0078.2	0073.5	0078.8	0077.1	0070.8	997.2.7	99559•9
01.50 01.60	0077.3	0030.6	2000.9	0031.2	0071.5	0076.8 0001.8	0075.1	0000.4	9972.7	9975.9 997
01.70	0083.2	0033.5	0033	9034.1	0001.5	0034.7	00565	0005.3	00.75.0	9009
01.80	0036.2	0035.5	3005. 3000c.	0037.1	0037.3	0007.6	9937.0	90.3.2	00 3.0	00.0.5
01.00	0030.1	0030.5	0030.7	00,000	0000.3	00.7.0	99,90.7	997L•:	50)1.8	90 21.•7
01.70	50.703	53.17**	99721		erature,		22,000	/	- * * * * * * * * * * * * * * * * * * *	141041
				renibi	.i avai e,	•				

37

TABLE 4 CHROMEL-CONSTANTAN (Continued)

								ference	Junction	, 35 ok
Millivolts	.00	.01	.02	.03	.04	•05	• 0 6	.07	•08	•09
03.00	0092.0	0093*5	0092.6	00)2.9	0093.2	0093.5	0093.8	0094.1	0094.4	0094.7
02 10	0094.9	0095.2	0095.5	8.6000	0096.1	0096.4	0095.7	0097.0	0097.3	0097.6
os ! so	0097.8	0090.1	0098.4	0098.7	0099.0	0099.3	0099.6	0099.9	0100.2	0100.5
02.30	01.00.7	0101.0	0101.3	0101.6	0101.9	0102.2	0102.5	0102.8	0103.1	0103.3
02.40	0103.6	0103.9	0104.2	01.04.5	0104.8	0105.1	0105.4	0105.7	0105.9	0106.2
02.50	0106.5	0106.8	0107.1	0107.4	0107.7	0103.0	0108.2	0108.5 0111.4	0108.8	0109.1
02.60	0109.4	0109.7	0110.0	0110.3	0110.5	0113.7	0111.1	0114.3	0114.6	0114.8
02.70	0112.3	0112.6 0115.4	0115.7	0116.0	0116.3	0115.7	0116.8	0117.1	0117.4	0117.7
02.80	0115.1	_	0118.6	0118.8	0119.1	0119.4	6119.7	0120.0	0120.3	0120.5
02.90	0118.0	0118.3	0116.6	0110.6	0119.1	0119.4	0119.1	0150*0	0150.2	01,20-5
03.00	0120.8	0121.1	0121.4	0121.7	0122.0	0122.3	0122.5	0122.8	0123.1	0123.4
03.10	0123.7	0124.0	0124.2	0124.5	0124.8	0125.1	0125.4	0125.7	0125.9	0126.2
03.20	0126.5	0126.8	0127.1	0127.4	01.27.6	0127.9	0128.2	0128.5	0128.8	0129.1
03.30	0129.3	0129.6	0129.9	0130.2	0130.5	0130.7	0131.0	0131.3	0131.6	0131.9
03.40	0132.2	0132.4	0132.7	0133.0	0133.3	0133.6	0133.8	0134.1	0134.4	0134.7
03.50	0135.0	0135.3	0135.5	0135.8	0136.1	0136.4	0136.7	0136.9	0137.2	0137.5
03.60	0137.8	0138.1	0138.3	0138.6	0133.9	0139.2	0139.5	0139.7	01/10.0	01/10.3
03.70	0140.6	0140.9	0141.1	0141.4	0141.7	0142.0	0142.3	0142.5	0142.3	0143.1
03.80	0143.4	0143.7	0143.9	0144.2	0144.5	0144.8	0145.1	0145.3	0145.6	0145.9
03.90	0146.2	0146.4	0146.7	0147.0	0147.3	0147.6	0147.8	0148.1	0148.4	0148.7
04.00	0148.9	0149.2	0149.5	0149.8	0150.1	0150.3	0150.6	0150.9	0151.2	0151.4
04.00	0151.7	0152.0	0152.3	0152.6	0152.8	0153.1	0153.4	0153.7	0153.9	0154.2
04.20	0154.5	0154.8	0155.0	0155.3	0155.6	0155.9	0156.2	0156.4	0156.7	0157.0
04.20	0157.3	0157.5	0157.8	0158.1	0158.4	0158.6	0158.9	0159.2	0159.5	0159.7
04.40	0160.0	0160.3	0160.6	0160.8	0161.1	0161.4	0161.7	0161.9	0162.2	0162.5
011.40	010010	0100.0	010010	010010	01.02.11	0202.	02.02.1	01.01.0	0.201.12	01.01.49
-1		2162.0	0163.3	0163.6	01.63.9	0164.1	0164.4	0164.7	0165.0	0165.2
04.50	0162.8	0163.0		_	0166.6	0166.9	0167.2	0167.4	0167.7	0168.0
c4.60	0165.5	0165.3	0166.1	0166.3		0169.6	0169.9	0170.2	0170.4	0170.7
c4.70	0158.3	0168.5	0168.8	0169.1	0169.4		0172.6	0172.9	0173.2	0173.5
04.80	0171.0	0171.3	0171.5	0171.8	0172.1	0172.4	0175.4	0175.6	0175.9	0176.2
01.90	0173.7	0174.0	0174.3	0174.5	0114.0	01/201	0119.4	011700	0.15.5	0.1,046
05.00	0176.5	0176.7	0177.0	0177.3	0177.5	0177.3	2178.1	0178.4	0178.6	0178.9
05.10	0179.2	0179 4	0179.7	0180.0	0180.3	0130.5	0180.8	0181.1	0181.3	0181.6
05.20	0131.9	0162.2	0182.4	0132.7	0183.0	0183.2	0183.5	0183.8	0184.1	0184.3
05.30	0184.6	0184.9	0135.1	0185.4	C185.7	0185.9	0186.2	0186.5	0186.8	0187.0
05.40	0187.3	0137.6	0187.8	0188.1	0188.4	0183.6	0188.9	01.89 .2	0189.5	0189.7
05.50	0190.0	0190.3	0190. 5	0190.8	0191.1	0191.3	0151.6	0191.9	0192.2	0192.4
05.60	0192.7	0193.0	0193.2	0193.5	0193.8	0194.0	0194.3	0194.6	0194.8	0195.1
05.70	0195.4	0195.6	0195.9	0196.2	0196.5	0196.7	0197.0	0197.3	0197.5	0197.8
05.80	0198.1	0198.3	0198.6	0193.9	0199.1	0199.4	0199.7	0199.9	0300 • 2	0200-5
05.90	0200.7	0201.0	0201.3	0201.5	0201.8	0202.1	0202.3	0202.6	0808.9	0203.1
06.00	0000 1	0203.7	0203.9	0204.2	0204.5	0204.7	0205.0	0205.3	0205.6	0205.8
06.00	0203.4	0203.7	0202.9	0206.9	0207.2	0207.4	0007.7	0203.0	0503.5	0203.5
06.10	0208.7	0200.4	0209.3	0200.5	0209.8	0210.1	0210.3	0210.6	0210.9	0211.1
06.20			0209.3	0209.9	0209.6	0210.1	0213.0	021.3 • 3	0213.5	0213.8
06.30	0211.4	0211.7	0214.6	0015.0	0215.1	0215.4	0215.7	0215.9	0216.2	0216.5
06.40	0214.1	02.64.3	06.18.0	Jr. 27 + J	V6.3.J+1	J(-1)***	JE	71.2.7		
06.50	0216.7	0017.0	0237.2	0217.5	0217.8	0218.0	0218.3	0218.6	0218.8	0219.1
96,69	0239.4	07.19.5	021.7+9	0820.2	0220.4	0220.7	0221.0	0221.2	022:1.5	0221.7
06.70	0322.0	0000:3	0222.5	oecc.3	0003.1	occ3.3	0223.6	0223.9	0224.1	0554*4
06.80	0224.6	0888.9	0225.2	9225.4	0885.7	0286.0	0226.2	0226.5	0556*8	0.7330
06.00	02:7.3	9207.5	032773	0113.j	968°•3	0888.6	9820.0	0220•1	96.29 . 4	900⊅ . 7
				T	emperatu	re, °F				

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							D. C.			32 °F
Millivolts	,00	.01	•00	.03	.04	.05	•06	rence Ju .07	.03	32 F •09
07.00	0229.9	0230.2	0230.4	0230.7	0231.0	0231.2	0231.5	0231.8	0232.0	0232.3
07.10	0232.5	0232.8	0233.1	0233.3	0233.6	0233.9	0234.1	0234.4	0234.6	0234.9
07.20	0235.2	0235.4	0235.7	0236.0	0236.2	0236.5	0236.7	0237.0	0237.3	0237.5
07.30	0237.8	0238.1	0238.3	0238.6	0238.8	0239.1	0239.4	0239.6	0239.9	0240.1
07.40	0240.4	0240.7	0240.9	0241.2	0241.5	0241.7	0242.0	0242.2	0242.5	0242.3
01.40	02-101-1	02.1011	02.10.7	01.42.	OL-121)	01.411	OL. 12. • O	VE /2.12	ردادان	01.10.0
07.50	0243.0	0243.3	0243.5	0243.8	0244.1	0244.3	0244.6	0244.8	0245.1	0245.4
07.60	0245.6	0245.9	0246.2	0245.4	0246.7	0246.9	0247.2	0247.5	0247.7	0248.0
97.70	0248.2	0248.5	0248.8	0249.0	0249.3	0249.5	0249.8	0250.1	0250.3	0250.6
07.80	0250.8	0251.1	0251.4	0251.6	0251.9	0252.1	0252.4	0252.7	0252.9	0253.2
07.90	0253.4	0253.7	025/1.0	0254.2	0254.5	0254.7	0255.0	0255.3	9255.5	0255.8
1,000	23		,					27.5		
03.00	0256.0	0256.3	0256.6	0256.8	0257.1	0257.3	0257 • 6	0257.9	0258.1	0258.4
08.10	0258.6	0258.9	0259.1	0259.4	0259.7	0259.9	0260.2	0260.4	0260.7	0261.0
08.20	0261.2	0261.5	0261.7	0262.0	0262.3	0262.5	0262.8	0263.0	0263.3	0263.5
03.30	0263.8	0264.1	0264.3	0264.6	0264.8	0265.1	0265.4	0265.6	0265.9	0266.1
08.40	0266.4	0266.6	0266.9	0267.2	0267.4	0267.7	0267.9	0268.2	0263.5	0268.7
				•						
08.50	0269.0	0269.2	0269.5	0269.7	0270.0	0270.3	0270.5	0270.8	0271.0	0271.3
08.60	0271.6	0271.8	0272.1	0272.3	0272.6	0272.8	0273.1	0273.4	0273.6	0273.9
08.70	0274.1	0274.4	0274.6	0274.9	0275.2	0275.4	0275.7	0275.9	0276.2	0276.4
08.80	0276.7	0277.0	0277.2	0277.5	0277.7	0278.0	0278.2	0278.5	0278.8	0279.0
08.90	0279.3	0279.5	0279.8	0.0850	0280.3	0280.6	0280.8	0281.1	0281.3	0281.6
09.00	0281.8	0282.1	0282.4	0282.6	0585.8	0233.1	0283.4	0283.6	0283.9	0284.2
09.10	0284.4	0284.7	0284.9	0235.2	0235.4	0285.7	0285.9	0286.2	0286.5	0286.7
09.20	0237.0	0287.2	0287.5	0287.7	0.8850	0288.3	0288.5	0238.8	0289.0	0289.3
09.30	0289.5	0289.8	0290.0	0290.3	0290.6	0290.8	0291.1	0291.3	0291.6	0291.8
09.40	0292.1	0292.4	0292.6	0292.9	0293.1	0293.4	0293.6	0293.9	0294.1	0294.4
09.50	0294.7	0294.9	0295.2	0295.4	0295.7	0295.9	0296,2	0296.4	0296.7	0297.,0
09.60	0297.2	0297.5	0297.7	0298.0	0298.2	0293.5	0298.7	0599.0	0299•3	0299.5
09.70	0299.8	0300.0	0300.4	0300.7	0300.9	0301.2	0301.4	0301.7	0301.9	0302+2
09.80	0302.4	0302.7	0302.9	0303.2	0303.4	0303.7	0303.9	0304.2	0304.4	0304.7
09.90	0305.0	0305.2	0305.5	0305.7	0306.0	0306.2	0306.5	0306.7	0307.0	0307 •S
10.00	0307.5	0307.7	0308.0	0308.2	0308.5	0308.7	0309.0	0309.2	0309.5	0309.7
10.10	0310.0	0310.2	0310.5	0310.7	0311.0	0311.2	0311.5	0311.7	0312.0	0312.2
10.20	0312.5	0312.7	0313.0	0313.2	0313.5	0313.7	0313.9	0314.2	0314.4	0314.7
10.30	0314.9	0315.2	0315.4	0315.7	0315.9	0316.2	0316.4	0316.7	0316.9	0317.2
10.40	0317.4	0317.7	0317.9	0318.2	0318.4	0318.7	0318.9	0319.2	0319.4	0319.7
10,50	0319.9	0320.2	0320.4	0320.7	0320.9	0321.2	0321.4	0321.7	0321.9	0328.2
10.60	0319.9	0320.2	0322.9	0320.7	0320.9	0323.7	0323.9	0324.2	0324.4	0324.7
10.70	0324.9	0325.2	0325.4	0325.7	0325.9	0326.2	0326.4	0326.6	0326.9	0327.1
10.80	0327.4	0327.6	0327.9	0328.1	0328.4	0328.6	0328.9	0329.1	0389.4	0329.6
10.90	0329.9	0330.1	0330.4	0330.6	0330.9	0331.1	0331.4	0331.6	0331.9	0332.1
20.50	032242	033	0330	0,5000	0330.7	VJJ 1.	033141	0331,0	رهدررن	0551.11
11.00	0332.4	0332.6	0332.9	0333.1	0333.3	0333.6	0333.8	0334.1	0334+3	0334.6
11.10	0334.8	0335.1	0335.3	0335.6	0335.8	0336.1	0336.3	0336.6	0336.8	0337.1
11.20	0337.3	0337.б	0337.8	0338.1	0330.3	0338.5	0330.0	0339.9	0332.3	0339.5
11.30	0339.8	0340.0	9340.3	0340.5	0340.8	9361.0	03:1.3	03/11.5	0341.8	0332.0
11.40	0342.3	0342.5	0548.8	03/3.0	03/13.2	0343.5	03/13.7	03/21.0	0500.2	0344.5
	. 3 3	. 3 3		.5 5-4		. 5 . 5 . 5	.3 .3 • [-5	3,
11.50	0344.7	0345.0	0345.0	0345.5	0045.7	0346.0	03/16.2	0386.5	9346.7	9346.9
11.60	03/17.2	0347.4	0347.7	0347.9	0348.8	0348.4	03/9:1.7	0395.3	0345.0	03/15.4
11.70	0349.7	03/19.9	0350.2	0350.4	0350.6	0350.9	0351.1	0351.4	0351.6	0351.9
11.80	0352.1	0352.4	0356.6	0358.9	0353.1	0353.4	0553.6	0353.8	0354.1	035/1.3
11.90	03:4.6	0354.8	0355.1	0355.3	0355.0	0355.3	9356.1	035/ •5	9356.0	9350.3

Temperature, or

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							Ref	erence J	unction,	32 °F
Millivolts	.00	.01	•02	.03	.04	.05	.06	.07	.08	.09
12.00	0357.0	0357.3	0357.5	0357.0	0358.0	0353.3	0358.5	8.8رو0	0359.0	0359.3
12.10	0359.5	0359.7	0360.0	0360.2	0360.5	0360.7	0361.0	0361.2	0361.5	0361.7
12,20	0362.0	0362.2	0362.4	0362.7	0362.9	0363.2	0363.4	0363.7	0363.9	0364.2
12.30	0364.4	0364.7	0364.9	0365.1	0365.4	0365.6	0365.9	0366.1	0366.4	0366.6
12.40	0366.9	0567.1	0367.4	9367.6	0367.8	0368.1	0368.3	0368.6	0368.8	0369.1
12,50	0369.3	0369.6	0369,8	0370.0	0370.3	0370.5	0370.8	0371.0	0371.3	0371.5
12.60	0371.3	0372.0	0372.2	0372.5	0372.7	0373.0	0373.2	0373.5	0373.7	0374.0
12.70	037세.2	0374.4	0374.7	0374.9	0375.2	0375.4	0375.7	0375.9	0376.2	0376.4
12.80	0376.6	0376.9	0377.1	0377.4	0377.6	0377.9	0375.1	0378.4	0378.6	0378.8
12,90	0379.1	0379.3	0379.6	0379.8	0330.1	0380.3	0380.6	0380.8	0381.0	0381.3
13.00	0204 5	0381.8	0382.0	0200 0	0200 -	0000 0	2000 0	****		
13.10	0381.5	0384.2	0384.5	0382.3	0382.5	0382.7	0383.0	c383.2	0383.5	0383.7
13.10	0386.4	0386.6	0386.9	0384.7	0384.9	0385.2 0387.6	0385.4	0385.7	0385.9	0386.2
13,20	0388.8	0389.1	0389.3	0389.6	0389.8	0390.1	0390.3	0388.1	0388.3	0388.6
13,40	0391.3	0399.1	0309.3	0392.0	0392.2	0390.1	0398.7	0390.5	0390.8	0391.0
13.40	0391+3	0331.5	0331.0	0397:40	0392.2	0396.0	0396.1	0393.0	0393.2	0393.5
13.50	0393.7	0393.9	0394.2	0394.4	0394.7	0394.9	0395.2	0395.4	0395.6	0395.9
13,60	0396.1.	0396.4	0396.6	0396.9	0397.1	0397.3	0397.6	0397.8	0393.1	0398.3
13.70	0398.6	0398.8	0399.0	0399.3	0399.5	0399.8	0400.0	0400.2	0400.5	0400.7
13.80	0401.0	0/101.2	0401.5	0401.7	0401.9	0402.2	0402.4	0402.7	0402.9	0403.2
13,90	0403.4	0403.6	0403.9	0404.1	0404.4	0404.6	0404.3	0405.1	0405.3	0405.6
	ah 0	alian i	alian a	-1	ahac o		-1			
14.00	0405.8	0406.1	0406.3	0406.5	0406.8	0407.0	0407.3	0407.5	0407.8	0408.0
14.10 14.20	0408.2	0408.5 0410.9	0408.7	0409.0 0411.4	0409.2	0409.4	0409.7	0409.9	0410.2	0410.4
14.30	0413.1	0413.3	0411.1	0413.8	0414.0	0411.9	0412.1	0412.3	0412.6	0412.8
14,40	0415.5	0415.7	0413.5 0416.0	0416.2	0416.4	0414.3	0414.5	0414.8	0415.0	0415.2
21110	0435.5	04251	0-110-0	0410.	0.1,10.4	0410.1	041.0.9	0417.2	0417.4	0417.6
14.50	0417.9	0418.1	0418,4	0418.6	0418.9	0419.1	0419.3	0419.6	0419.8	0420.1
14.60	0420.3	0420.5	0420.8	0421.0	0421.3	0421.5	0421.7	0415.0	0422.2	0420.1
14.70	0420.3	0420.9	0420.0	0423.4	0421.3	0423.9	0424.2	0422.0	0422.2	0424.9
14.70	0425.1	0425.4	0425.6	0423.4	0426.1	0425.9	0424.2	0426.8	0427.0	
14.90	0427.5	0427.8	0429.0	0428.2	0428.5	0428.7	0429.0	0420.0	0427.0	0427.3 0429.7
1.4.50	042145	0421.0	047.010	042.0.2	042.0.5	04201	042710	0.123.6	0423.4	0.12.9 • [
15.00	0129.9	0430.2	0430.4	0430.6	0430.9	0431.1	0431.4	0431.6	0431.8	0432.1
15.10	0432.3	0432.6	0432.8	0433.0	0433.3	0433.5	0433.8	0434.0	0434.2	0434.5
15.20	0434.7	0435.0	0435.2	0435.4	0435.7	0435.9	0436.2	0436.4	0436.6	0436.9
15.30	0437.1	0437.4	0437.6	0437.8	0438.1	0438.3	0438.6	0438.8	0439.0	0439.3
15.40	0439.5	0439.7	0/140.0	0440.2	0,440,5	0440.7	0440.9	0441.2	0441.4	0441.7
					-1.1					
15.50	0441.9	0442.1	0442.4	0442.6	0445.0	0443.1	0443.3	0443.6	0443.8	04/// 1
15.60	0/144-3	0444.5	0444.8	0445.0	0/145.3	0445.5	0445.7	0446.0	0446.2	0446.4
15.70	0446.7	0446.9	0447.2	0447.4	0447.6	0447.9	0448.1	0448.4	0448.6	0448.8
15.80	0449.1	0449.3	0449.6	0449.3	0450.0	0450.3	0450.5	0450.7	0451.0	0451.2
15.90	0/151.5	0451.7	0451.9	0452.2	0452.4	0452.7	0452.9	0/153.1	0453.4	0453.6
16.00	0453.8	0454.1	0656.3	0454.6	0454.8	0455.0	0455.3	0455.5	0455.8	0456.0
16.10	0456.2	0456.5	0456.7	0456.9	0457.2	0457.4	0557-7	0457.9	045%.1.	0458.4
16.20	0453.6	0458.8	0459.1	0459.3	0459.6	0459.8	040:0.0	01:60.3	0460.5	0460.8
16.30	0461.0	0461.2	0461.5	0461.7	0461.9	0462.2	04.62.4	0462.7	0462.9	0463.1
16.40	0463.4	0463.5	0463.8	0464.1	0464.3	0րդր ′0	0464.8	0465.0	0465.3	0465.5
	-1 -	et c	obe:	a le circi	ob C	a b d d	alı Cı		-1.6	al-c= =
16.50 16.60	0465.7 0468.1	0465.4	0466.2 0468.6	0466.5 0463.8	0466.7	0466 . 9	0467.2 0469.5	0467.4 0469.8	0467.6	0467.9
16.70	0470.5	0465.4	0471.0	0463.3	0469.1 0471.4	0471.7	0471.9	0403.0	0470.0	0470.3 0472.6
16.80	0470.5	9年73.1	0471.0	0473.6	0473.4	0471.0	0474.3	0474.5	S. hync	0475.0
16.90	0475.2	0475.5	0475.7	9475.9	0476.2	0476.4	0476.7	0476.9	0177.1	0477.4
3.0.70	√11J+6	2.1717	* ·1.2+1		mperatur	·-	2.10.1	591013	211116	Sec. (•
				Ter	mper-mur	ا و ت				

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							Refe	rence Ju	nction.	32 °F
Millivolts	.00	.01	.02	.03	.04	.05	.06	.07	.03	.09
17.00	0477.6	0477.0	0473.1	0478.3	0473.5	0470.0	0479.0	0479.3	0479.5	0479.7
17.10	0480.0	0430.2	01:80.4	0430.7	0400.9	0501.2	OLGI.4	0481.6	0481.9	0482.1
17.20	0492.3	0432.6	0402.8	0483.0	0483.3	0433.5	0.83.8	0484.0	0484.2	0484.5
17.30	0434.7	0484.9	ohO5.11	0435.4	0485.6	0485.9	0436.1	0436.4	0486.6	0486.8
17.40	0437.1	0487.3	c437.5	0437.8	0488.0	0408.2	0488.5	0438.7	9.8840	0489.2
17.50	0489.4	0439.7	0489.9	0490.1	0490.4	0490.6	0490.8	0491.1	0491.3	0491.5
17.60	0491.8	0492.0	0492.3	0492.5	0492.7	0493.0	0493.2	0493.4	0493.7	0493.9
17.70	0494.1	0/19/1-1	0494.6	0494.8	0495.1	0495.3	0495.6	0495.3	0496.0	0496.3
17.80 17.90	0496.5	0496.7 0499.1	0497.0	0497.2 0499.6	0499.8	0497.7 0500.0	0497.9	0498.1	0493.4	0498.6
11.50	049010	0497.1	047913	0.55.0	0499.0	0500.0	0500.3	0500.5	0500.7	0501.0
18.00	0501.2	0501.4	0501.7	0501.9	0502.1	0502.4	050გ.ნ	0502.8	0503.1	0503.3
18.10	0503.6	0503.8	0504.0	0504.3	0504.5	0500.7	0505.0	0505.2	0505.4	0505.7
18.20	0505.9	0506.1	0506.4	0506.6	0506.8	0507.1	0507.3	0507.5	0507.8	0508.0
18.30	0508.3	0508.5	0503.7	0509.0	0509.2	0509.4	0509.7	C509.9	0510.1	0510.4
18.40	0510.6	0510.0	0511.1	0511.3	0511.5	0511.0	0512.0	0512.2	0512.5	0512.7
18.50	0512.5	0513.2	0513.4	0513.7	0513.9	051/4-1	0514.4	0514.6	0514.0	0515.1
18.60	0515.3	0515.5	0515.3	0516.0	0516.2	0516.5	0516.7	0516.9	0517.2	0517.4
18.70	0517.6	0517.9	0518.1	0513.3	0519.6	0510.0	0519.0	0519.3	0519.5	0519.7
18.80	0520.0	0520.2	0520.4	0520.7	0520.9	0521.1	05/:1.4	0521.6	0521.8	0522.1
18.90	0522.3	0522.5	0522.3	0523.0	0503.3	0523.5	0583.7	05:24.0	0524.2	0524.4
									-	_
19.00	0524.7	0524.9	0525.1	0525.4	0525.6	0525.3	0526.1	0526.3	0526.5	0526.8
19.10	0527.0	0527.2	0527.5	0527.7	0527.9	0528.2	0528.4	0528.ნ	0528.9	0529.1
19.20	0529.3	0529.6	0529.8	0530.0	0530.3	0530.5	0530.7	0531.0	0531.2	0531.4
19.30	0531.7	0531.9	0532.1	0532.4	0532.6	0532.8	0533.1	0533.3	0533.5	0533.8
19.40	0534.0	0534.2	0534.5	0534.7	0534.9	0535.2	0535.4	0535.6	0535.9	0536.1
19.50	0536.3	0536.6	0536.8	0537.0	0537.3	0537.5	0537.7	0538.0	0533.2	0538.4
19.60	0538.7	0538.9	0539.1	0539.4	0539.6	0539.8	0540.1	0540.3	0540.5	0540.8
19.70	0541.0	0541.2	0541.5	0541.7	0541.9	0542.2	0542.4	0542.6	0542.9	0543.1
19.80	0543.3	0543.5	0543.8	0544.0	0544.2	0544.5	0544.7	0544.9	05/15.2	0545.4
19.90	0545.6	0545.9	0546.1	0546.3	0546.6	0546.8	05/17.0	0547.3	0547.5	0547.7
20.00	0548.0	05/18.2	0548.4	0548.7	0543.9	0549.1	0549.4	0549.6	0549.0	0550.1
20.10	0550.3	0550.5	0550.8	0551.0	0551.2	0551.5	0551.7	0551.9	0552.1	0550.4
80.80	0552.6	0552.8	0553.1	0553.3	0553.5	0553.8	0550.0	0554.2	0554.5	0554.7
20.30	0554.9	0555.2	0555.4	0555.6	0555.9	0556.1	0556.3	0556.6	0556.0	0557.0
20.40	0557.3	0557.5	0557.7	0558.0	0558.2	0558.4	0558.6	0556.9	0559.1	0559.3
				-						
20,50	0559.6	0559.3	0560.0	0560.3	0560.5	0560.7	0561.0	0561.2	0561.4	0561.7
20.60	0561.9	0562.1	0562.4	0562.6	0562.3	0563.1	0563.3	0563.5	0563.7	0564.0
20.70	0564.2	0564.4	0564.7	0564.9	0565.1	0565.4	0565,6	0565.8	0566.1	0566.3
50.80	0566.5	0566.8	0567.0	0567.2	0567.4	0567.7	0567.9	0568.1	0563.4	0563.6
20.90	0563.8	0569.1	0569.3	0569.5	0569.8	0.0700	0570.2	0570.5	0570.7	0.70.9
21.00	0571.2	0571.4	0571.0	0571.3	0572.1	0572.3	0578.5	0570.0	0573.0	9573.8
21.10	0573.5	0573.7	0573.5	0574.4	0574.4	0574.6	0570.0	2575.1	9575+2	2575+5
21.20	0575.8	0576.0	0575.2	0576.5	9576.7	0576.5	9577.0	0577.5	9577 • -	9377.1
	0578.1	057:13	o573.5	0577.7	0575.0	9577.0	0570.5	257.2•7	0,77.	05.0%
51.40	0530.4	0580.6	0500.3	9511.1	05/33	ر. د.ه.ره	ひった。	95, mo	O5	0590.5
21.50	0588.7	0582.9	05/3.6	0553.4	0573.6	95-3.0	0524.3	07/4.3	05/44.5	0594.5
	05/15.0	0535.2	0585.5	9585.7	05/5.0	25 Sint	0500.4	05.0.6	95/4+5 95/26-5	05.7.1
	0587.3	0577.5	2527.0	05/30.0	05 51.0	25/14-5	9,713.7	05 4.7	95 9.1	05-19-4
	0597.6	0517.0	950.1	0,00.3	05,00.5	2,72	95/25.0	0505.0	05:12.7	9521.7
	05/11.7	27.1.1	9,00	050 +	9, 1 .	95.3+1	9.00	2000	19, 34	0.1.0
				*						

TABLE 4 CHROMEL-CONSTANTAN (Continued)

						,	. , ,	,		
								Cerence .	lunction,	32 of
M1.111volts	.00	.01	.00	•03	.04	.05	∙ 0 ó	.07	.03	•09
22.00	0534.2	0594.4	0,54.7	0594.9	0595.1	0535.4	0595.6	0595.8	0596.1	059წ.3
22.10	0,000,5	0596.7	0597.0	0597.2	0597.4	0597.7	0597.9	0598.1	0598.4	0598.6
22.20	0593.8	5599.0	3. (לע כני	0599.5	0599.7	0600.0	0600.5	0600.4	0600.7	0500.9
22.30	0601.1	0601.3	0501.6	0601.8	0602.0	0605.3	0602.5	0602.7	0602.9	0603.2
22.40	0603.4	0603.6	0603.9	0604.1	0604.3	0504.6	8, 4000	0605.0	0605.2	0605.5
22,50	0605.7	0605.9	0606.2	0006.4	0606.6	0606.9	0607.1	0607.3	0507.5	0607.8
22.60	0608.0	0603.2	0603.5	0603.7	0603.9	0609.1	0609.4	0609.6	8.6090	0610.1
22.70	0610.3	0610.5	0610.7	0611.0	06:1.2	0611.4	0611.7	0611.9	0612.1	0612.4
22.80	0612.6	0612.8	0613.0	0613.3	0513.5	0613.7	0614.0	0614.2	0614.4	0614.6
22.90	0614.9	0615.1	0615.3	0615.6	0515.8	0616.0	0616.2	0616.5	0616.7	0616.9
23.00	0617.2	0617.4	0617.6	0617.9	0618.1	0618.3	0618.5	0618.8	0519.0	0619.2
23.10	0619.5	0619.7	0619.9	0620.1	0620.4	0620.6	0620.8	0621.1	0621.3	0621.5
23.20	0621.7	0522.0	0622.2	0622.4	0622.7	0622.9	0623.1	0623.3	0623.6	0623.8
23.30	0624.0	0624.3	0624.5	0624.7	0624.9	0625.2	0625.4	0625.6	0625.9	0626.1
23.40	0626.3	0626.5	0626.8	0627.0	0627.2	0627.5	0627.7	0627.9	0628.1	0628.4
23.50	0628.6	0628.8	0629.1	0629.3	0629.5	0629.7	0630.0	0630.2	0630.4	0630.7
23.60	0630.9	0631.1	0631.3	0631.6	0631.8	0632.0	0632.3	0632.5	0632.7	0632.9
23,70	0633.2	0633.4	0633.6	0633.9	0634.1	0634.3	0634.5	0634.8	0635.0	0635.2
23.80	0635.5	0635.7	0635.9	0636.1	0636.4	0636.6	0636.8	0637.1	0637.3	0637.5
23.90	0637.7	0638.0	0638.2	0638.4	0638.6	0638.9	0639.1	0639.3	0639.6	0639.8
24.00	0640.0	0640.2	0640.5	0640.7	0640.9	0641.2	0641.4	0641.6	0641.8	0642.1
24.10	0642.3	0642.5	0642.8	0643.0	0643.2	0643.4	0643.7	0643.9	0644.1	0644.3
24.20	0644.6	0544.8	0645.0	0645.3	0645.5	0645.7	0645.9	0646.2	0546.4	0646.6
24.30	0646.9	0647.1	0647.3	0647.5	0647.8	0648.0	0648.2	0648.4	0648.7	0648.9
24.40	0649.1	0649.4	0649.6	0649.8	0650.0	0650.3	0650.5	0650.7	0651.0	0451.2
•					-					
24.50	0651.4	0651.6	0651.9	0652.1	0652.3	0652.5	0652.8	0653.0	0653.2	0653.5
24.60	0653.7	0653.9	0654.1	0654.4	0654.6	0654.8	0655.0	0655.3	0655.5	0655.7
24.70	0656.0	0656.2	0656.4	0656.6	0656.9	0657.1	0657.3	0657.5	0657.8	0658.0
24.80	0658.2	0658.5	0658.7	0658.9	0659.1	0659.4	0659.6	0659.8	0660.0	0660.3
24.90	0660.5	0660.7	0661.0	06€1.2	0661.4	0661.6	0661.9	0662.1	0662,3	0662.5
25.00	0665*8	0663.0	0663.2	0663.5	0663.7	0663.9	0664.1	0664.4	0664.6	0664.8
25.10	0665.0	0665.3	0665.5	0665.7	0666.0	0666.2	0666.4	0666.6	0666.9	0667.1
25,20	0667.3	0667.5	0667.3	0.668	0668.2	0668.5	0668.7	0668.9	0669.1	0669.4
25.30	0669.6	0669.8	0670.0	0670.3	0670.5	0670.7	0670.9	0671.2	0671.4	0671.6
25.40	0671.9	0672.1	o672.3	0672.5	o672.8	0673.0	0673.2	0673.4	0673.7	0673.9
25.50	0674.1	0574.4	0674.6	0674.3	0675.0	0675.3	0675.5	0675.7	0675.9	0676.2
25.60	0676.4	0676.6	0676.8	0677.1	0677.3	0677.5	0677.7	0678.0	0678.2	0678.4
25.70	0678.7	0678.9	0679.1	0679.3	0679.6	8.6790	0680.0	0680.2	0680.5	0680.7
25.80	0680.9	0681.1	0631.4	0681.6	0681.3	0682.1	0682.3	0632.5	0682.7	0683.0
25.90	0683.2	0683.4	0683.6	0683.9	0634.1	0684.3	0684.5	0684,8	0685.0	0685.2
26.00	0685.5	0685.7	0685.9	ინმი.1	06მნ.4	0636.6	0636 . 8	0687.0	0687.3	ინგა.2
26.10	0687.7	0637.9	0638.2	0688.4	0600.6	3,8530	0609.1	0689.3	0689.5	0689.8
26.20	0690.0	0690.2	0690.4	0690.7	0690.9	0691.1	0591.3	0691.6	0691.8	0692.0
26.30	0695.5	0692.5	0692.7	0692.9	0693.1	0693.4	0693.6	0693.8	0694.0	0694.3
26.40	0694.5	7. الر06	0695.0	0695.2	0695.4	0695.6	0695.9	0696.1	0696.3	0696.5
25,50	6.3690	0697.0	0.607.2	06:77 ·4	0697.7	0697.9	9698.1	0698.3	0698.6	8,8000
26.60	0699.0	0633.2	0699.5	0699.7	0699.9	0700.2	0700.4	0700.6	0700.8	0701.1
26.70	0701.3	0701.5	0701.7	ογοαο	ογοε.ε	0702.4	0792.6	0702.5	0703.1	0703.3
26.30	0703.5	3. 8070	0704.0	0704.2	070# .ti	0701.7	9,1000	0705.1	3.د٥٧٥	0705.6
26,90	9705.0	0706.0	0706.:	0700.5	7.0070	2700.5	\circ	0707.1	0707.6	8,7070

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							Re	ference .	Junction,	32 °F
Millivolts	.00	.01	• 02	.03	. O/s	•05	•06	.07	.03	.09
27.00	0703.1	0703.3	0703.5	0703.7	0709.0	0709.2	0709.4	0709.6	0709.9	0710.1
27.10	0710.3	0710.5	0710.8	0711.0	0711.2	0711.4	0711.7	0711.9	0712.1	0712.3
27.20	0712.6	0712.8	0713.0	0713.2	0713.5	0713.7	0713.9	0714.1	0714.4	0714.6
27.30	0714.8	0715.0	0715.3	0715.5	0715.7	0716.0	0716.2	0716.4	0716.6	0716.9
27.40	0717.1	0717.3	0717.5	0717.8	0718.0	0718.2	0718.4	0718.7	0718.9	0719.1
27.50	0719.3	0719.6	0719.8	0720.0	0720.2	0720.5	0720.7	0720.9	0721.1	0721.4
27.60	0721.6	0721.8	0722.0	0/22.3	0722.5	0722.7	0722.9	0723.2	0723.4	0723.6
27.70	0723.8	0724.1	0724.3	0724.5	0.454.7	0(25.0	0725.2	0725.4	0725.6	0725.9
27.80	0726.1	0725.3	0726.5	0726.8	0727.0	0727.2	0727.4	0727.7	0727.9	0728.1
27.90	0723.3	07:3.6	0723.8	0729.0	0729.2	0/29.5	0729.7	0729.9	0730.1	0730.4
·							•			
28.00	0730.6	0730.8	0731.0	0731.3	0731.5	0731.7	0731.9	0732.2	0732.4	0732.6
23.10	0732.8	0733.1	0733.3	0733.5	0733.7	0734.0	0734.2	0734.4	0734.6	0734.9
28.20	0735.1	0735•3	0735.5	0735.8	0735.0	0736.2	0736,4	0736.7	0736.9	0737.1
28.30	0737.3	0737.6	0737.0	0733.0	0730.2	0738.5	0738.7	0738.9	0739.1	0739.4
28.40	0739.6	0739.3	0740.0	0740.3	0740.5	0740.7	0740.9	07/11.2	0741.4	0741.6
28.50	0741.8	0742.1	07/12.3	0742.5	0742.7	0743.0	0743.2	0743.4	0743.6	0743.9
28.60	0744.1	0744.3	0744.5	0744.3	0745.0	0745.2	0745.4	0745.7	0745.9	0746.1
28.70	0746.3	0746.6	0746.3	0747.0	0747.2	0747.5	0747.7	0747.9	0748.1	0748.4
23.80	0748.6	0748.8	0749.0	0749.3	0749.5	0749.7	0749.9	0750.2	0750.4	0750.6
28.90	0750.8	0751.1	0751.3	0751.5	0751.7	0752.0	0752.2	0752.4	0752.6	0752.9
29.00	0753.1	0753.3	0753.5	0753.8	0754.0	0754.2	0754.4	0754.7	0754.9	0755.1
29.10	0755.3	0755.6	0755.8	0756.0	0756.2	0756.4	0756.7	0756.9	0757.1	0757.3
29.20	0757.6	0757.8	0758.0	0758.2	0758.5	0753.7	0758.9	0759.1	0759.4	0759.6
29.30	0759.8	0760.0	0760.3	0760.5	0760.7	0760.9	0761.2	0761.4	0761.6	0761.8
29.40	0762.1	0762.3	0762.5	0762.7	0763.0	0763.2	0763.4	0763.6	0763.9	0764.1
29.50	0764.3	0764.5	0764.8	0765.0	0765.2	0765.4	0765.7	0765.9	0766.1	0766.3
59.60	9766.5	0766.8	0767.0	0767.2	0767.4	0767.7	0767.9	0768.1	0768.3	0768.6
29.70	0768.8	0769.0	0769.2	0769.5	0769.7	0769.9	0770.1	0770.4	0770.6	8.0770
29.80	0771.0	0771.3	0771.5	0771.7	0771.9	0772.2	0772.4	0772.6	0772.9	0773.1
29.90	0773.3	0773.5	0773.7	0774.0	0774.2	0774.4	0774.6	0774.8	0775.1	0775.3
30.00	0775.5	0775.7	0776.0	0776.2	0776.4	0776.6	0776.9	0777.1	0777.3	0777.5
30.10	0777.8	0773.0	0778.2	0778.4	0778.7	0778.9	0779.1	0779.3	0779.6	0779.8
30.20	0.0370	0786.2	0780.5	0780.7	0730.9	0781.1	0731.3	0781.6	0731.8	0782.0
30.30	0782.2	0782.5	0782.7	0782.9	0783.1	0733.4	0783.6	0783.8	0784.0	0784.3
30.40	0784.5	0784.7	0734.9	0735.2	0735.4	0785.6	0785.8	0786.1	0706.3	0736.5
30.50	0786.7	0787.0	0787.2	0787.4	0737.6	0737.8	0783.1	0788.3	0788.5	7.8370
30.60	0789.0	0739.2	0789.4	0789.6	0789.9	0790.1	0790.3	0790.5	8.0670	0731.0
30.70	0791.2	0791.4	0791.7	0791.9	0792.1	0792.3	0792.6	0792.6	0793.0	0793.2
30.80	0793.4	0793.7	0793.9	0794.1	0794.3	0794.6	0794.8	0795.0	0795.2	0795.5
30.90	0795.7	0795.9	0796.1	0796.4	0796.6	0796.8	0797.0	0797.3	0797.5	0797.7
31.00	97.97	0798.1	0798.4	0798.6	0793.6	0799.0	0793.3	0799•5	0799.7	0799.9
-	0800.2	0300.4	0300.6	0300.0	0301.1	0301.3	0301.5	0301.7	0302.0	0802.2
D	0802.4	0802.6	0302.9	0003.1	0903.3	0303.5	0303.7	0304.0	9804.2	0004.4
	0804.6	0304.9	0305.1	0305.3	0005.5	0805.8	0306.0	0::06.2	9306.4	0306.7
2	0306.9	0007+1	0807.3	0507.6	8, 1030	0.808.0	0.03*5	0300.4	ο3οε,γ	0808.9
31.50	0809.1	0309.3	0809.6	0809.8	0310.0	0310.2	0310.5	0810.7	0810.9	0311.1
31.60	0811.4	0811.6	0811.8	0912.0	0812.3	0812.5	0812.7	0212.9	0313.1	0313.4
	0313.6	0813.8	031/1.0	0814.3	0814.5	081/:.7	0814.9	0315.2	0315.4	0815.6
	0315.8	0316.1	0316.3	0816.5	0316.7	0616.9	9917.0	0017.1	0017.6	0317.3
	0318.1	6010.3	0010.5	0313.7	0919.0	0010.2	901y.h	9312.6	9119.9	0020.1
22-										

Temperature, OF

TABLE 4 CHROMEL-CONSTANTAN (Continued)

								•		
								erence Ju		35 ok
Millivolta	.00	.01	.02	• 03	•04	•05	•06	.07	.08	.09
32.00	0850*3	0820.5	0820.8	0821.0	0821.2	000:1.4	0321.6	0321.9	0522.1	0822.3
32.10	0022.5	0022.8	0823.0	0323.2	0023.4	0853*4	0823.9	0824.1	0824.3	0324.6
38.80	8.4830	0825.0	0825.2	0825.4	0325.7	0825.9	0826.1	0826.3	c 826.6	0326.8
32.30	0.7530	0327.2	0327.5	0327.7	0327.9	0828.1	0828.4	0828.6	0828.8	0829.0
32.40	0329.3	0829.5	0329.γ	0329.9	0830.1	0830.4	0330.6	0830.8	0831.0	0831.3
	-004 (000. 5	2004.0	2022.2	onne k	0000	0000	e0ed .	20 22 0	.0.0.0
32.50 32.60	0831.5	0831.7 0833.9	0831.9 0834.2	0832.2 0834.4	0832.4 0334.6	0832.6 0834.8	0832.8	0833.1 0835.3	0833.3 0835.5	0833.5 0835.7
32.70	0836.0	0836.2	0836.4	0336.6	0836.9	0837.1	0837.3	0837.5	0837.7	0838.0
32.80	0838.2	0838.4	0838.6	0838.9	0839.1	0839.3	0339.5	0839.8	0840.0	0840.2
32.90	0840.4	0030.4	0840.9	0341.1	0341.3	0341.6	0841.8	0842.0	0842.2	0842.4
32.50	0(,401-1	00401	001017	004141	001113	001240	0011.00	0012.00	00 11.12	001211
33.00	0342.7	0842.9	0343.1	00//3.3	0043.6	0243.8	0344.0	0844.2	0844.5	0844.7
33.10	0344.9	0845.1	0345.4	0345.6	0245.8	0346.0	0346.2	03/16.5	0846.7	0846.9
33.20	0047.1	0347.4	0347.6	0847.8	0343.0	0848.3	0343.5	u848.7	0848.5	2. 0949
33.30	0349.4	0349.6	0249.8	0850.0	0050.3	0850.5	0850.7	0350.9	0851.2	0851.4
33.40	0851.6	0851.8	0858.1	0252.3	0352.5	0852.7	0853.0	0353.2	0853.4	0853.6
00.50	*0.55 0	00-11-4	anch a	00 ch 5	00-1-0	0055 -		-0 !	****	-0 0
33.50	0853.8	0854.1	0854.3	0854.5	0854.7	0355.0	0355.2	0855.4	0855.6	0855.9
33.60	0856.1	0856.3	0856.5	0356.8	0857.0	0857.2	0857.4	0857.6	0857.9	0958.1
33.70	0858.3	0858.5 0860.8	0358.8	0359.0	0859.2 0861.4		0859.7	0859.9		7860.3
33.80						0861.7	0861.9		0862.3	0364.8
33.90	0862.8	0863.0	0863.2	0863.5	0363.7	0863.9	0864.1	0864.4	0364.6	0364.8
311,00	0865.0	0865.2	0865.5	0865.7	0865.9	0366.1	0866.4	0866.6	0866.8	0867.0
34.10	0867.3	0867.5	0867.7	0867.9	0868.2	0868.4	0868.6	0868.8	0869.0	0869.3
34.20	0869.5	0859.7	0869.9	0870.2	0870.4	0870.6	0870.8	0871.1	0871.3	0871.5
34.30	0871.7	0872.0	0872.2	0372.4	0872.6	0872.8	0873.1	0873.3	0873.5	0873.7
34.40	0374.0	0874.2	0874.4	0874.6	0874.9	0875.1	0875.3	0875.5	0875.8	0876.0
34.50	0876.2	0876.4	0376.6	0876.9	0377.1	9877.3	0877.5	0877.8	0878.0	0878.2
34.60	0378.4	0873.7	0878.9	0879.1	0879.3	0979.6	0879.8	0.0880	0880.2	0880.4
34.70	0380.7	0880.9	0331.1	0381.3	0881.6	0881.3	0882.0	2,5880	0882.5	0882.7
34.80	0882.9	0883.1	0883,4	0383.6	0383.8	0884.0	0884.3	0884.5	0884.7	0884.9
34.90	0885.1	0885.4	0885,6	0885.8	0886,0	0886.3	0386.5	0886.7	0886.9	0887.2
25.00	0837.4	0887.6	0887.8	0000 4	6000 3	6000 6	0000 4	0000 A	0090	oppor h
35.00 35.10	0889.6	0889.3	0390.1	0888.1	0883.3	0838.5	0888.7 0891.0	0888.9 0891.2	0889.2 0891.4	0889.4 0891.6
35.20	0891.9	0392.1	0392.3	0392.5	0392.7	0893.0	0893.2	0393.4	0893.6	0893.9
35.30	0394.1	3894.3	0894.5	0894.8	0095.0	00005.8	0895.4	0095.7	0395.9	0896.1
35.40	0696.3	0896.6	8,0050	0397.0	0397.2	0397.4	0397.7	0897.9	0893.1	0890.3
35.10	00,01	00,010	00,000	0.771.0	005141.	0021.4	005[1	005[15	007011	100000
35.50	0398.6	0398.3	0899.0	0899.2	0899.5	0399.7	0399 *0	0900.1	0900.5	0900.7
35.60	0900.9	0901.1	0901,4	0901.6	0901.8	0.2060	0202.3	0902.5	0902.7	0902.9
35.70	0903.1	0903.4	0903.6	0903.3	0.1000	0.1000	0904.5	0904.7	0904.9	0905.1
35.80	0905.4	0905.6	0905.0	0.0060	0906.2	0906.5	0906.7	0906.9	0907.1	0907.4
35.90	0907.6	0907.3	0903.0	0903.2	0900.5	0903.γ	0908.9	0909.1	090y.N	0909.6
36.00	6,000	0910.0	0910.2	0910.5	0910.7	0910.9	0911.1	0911.4	0911.6	0911.8
36.10	0912.0	0918.8	0912.5	0918.7	0912.9	0913.1	0913.3	0913.6	0913.8	091/1.0
36.20	0914.0	0914.5	0914.7	091/1.9	0215.1	0915.5	0915.6	0915.8	0916.0	0916.2
36.30	0916.5	0716.7	0916.9	0917.1	0917.3	0917.6	0)1).0	0918.0	0918.2	0918.4
36.40	9918.7	0918.9	0919.1	0919.3	0919.6	0019.8	0920.0	0920.2	0920.4	0920.7
5-1.0					.,,			,,	.,	.,,
36.50	0920.9	0921.1	0921.3	0921.6	0921.3	0999.0	0982.8	0922.4	0922.7	0922.9
36,60	0903.1	0,03+3	0903.5	0 923. 8	0.1550	090942	0924.4	0924.7	0924.9	0925.1
36.70	0985+3	0925.5	0905,0	0026.0	0000.0	0985.4	0526.7	0926.9	0927.1	0927.3
36,80	0387.5	0354	0920.0	0.785.0	00003.4	0923.ú	99(3,9	0929.1	0989.3	9929.5
36.90	9999.7	0,30.0	0530.0	0930.E	0930.6	0930.9	0931.1	0931.3	0931.5	0931.8
					Tumuranat	1170 OR				

Temperature, of

TABLE 4 CHROMEL-CONSTANTAN (Continued)

		IADLI	- 4 CI	IKOMEL	C ONS 1	MITTAL				
									Junction	
Millivolts	.00	•01	.03	.03	· 0h	.0ō	.06	.07	.03	•09
37.00	0932.0	0930.2	0932.4	0932.6	0932.9	0933.1	0933.3	0933.5	0933.8	0934.0
37.10	0934.2	0934.4	0934.6	0934.9	0935.1	0935•3	0935.5	0935.7	0936.0	0936.2
37.20	0936.4	0936.6	0936.9	0937.1	0937.3	0937.5	0937.7	0933.0	0938•2	0938 .4
37.30	0938.6	0938.9	0939.1	0939.3	0939.5	0939.7	0940.0	0940.8	0940.4	0940.6
37,40	0940.8	0941.1	0941.3	0941.5	0941.7	0942.0	0942.2	094874	0945.6	0942.8
37.50	0943.1	c943.3	09h3.5	0943.7	0944.0	0944.2	0944.4	0944.6	8,440	0945.1
37.60	0945.3	0945.5	0945.7	0946.0	0946,2	0946.4	0946.6	0946.8	0947.1	0947.3
37.70	0947.5	0947.7	0947.9	0948.2	0948.4	0943.6	0943.8	0949.1	0949.3	0949.5
37,80	0949.7	0949.9	0950.2	0950 E	0950.6	0950.3	0951.1	0951.3	0951.5	0951.7
37.90	0951.9	0952.2	0952.4	0952.6	0952.8	0953.0	0953.3	0953.5	0953.7	0953.9
38.00	0954.2	0954.4	0954.6	0954.8	0955.0	0955.3	0955.5	0955•7	0955.9	0956.2
38.10	0956.4	0956.6	0956,3	0957.0	0957.3	0957•5	0957.7	0957.9	0958.2	0958.4
38.20	0953.6	0958.8	0959.0	0959.3	0959.5	0959.7	0959•9	0960.1	0960.4	0960.6
38.30	0960.3	0961.0	0961.3	0961.5	0961.7	0961.9	0962.1	0503.4	0962.6	9,5960
38.40	0963.0	0963.3	0963.5	0963.7	0963.9	0964.1	0964.4	0964.6	0964.8	0965.0
38.50	0965.3	0965.5	0965.7	0965.9	0966.1	0966,4	0966.6	0966.8	0967.0	0967.2
38.60	0967.5	0967.7	0967.9	0968.1	0968.4	0960.6	0963.8	0969.0	0969.2	0969.5
38.70	0969.7	0969.9	0970.1	0970.4	0970.6	0970.8	0971.0	0971.2	0971.5	0971.7
38.80	0971.9	0970.1	0972.4	0972.6	0972.3	0973.0	0973∙2	0973.5	0973.7	0973.9
38,90	0974.1	0974.3	0974.6	0974.8	0975.0	0975.2	0975.5	0975.7	0975.9	0976.1
39.00	0976.3	0976.6	0976.8	0977.0	0977.2	0977.5	0977.7	0977.9	0978.1	0978.3
39.10	0978.6	0978.8	0979.0	0979.2	0979.5	0979.7	0979.9	0980.1	0980.3	0980.6
39.20	0980.8	0981.0	9981.2	0981.5	0981.7	0981.9	0982.1	0982.3	0982.6	0982.8
39.30	0983.0	0983.2	0983.4	0983.7	0983.9	0984.1	0984.3	0984.6	0984.8	0985.0
39.40	0985.2	0985.4	0985.7	0985.9	0986.1	0986.3	0986.6	0986.8	0987.0	0987.2
37.40	V)05.2	0205.4	0,050	0,00,0	0,000.1	0,000.5	090010	0,000.0	0301.0	0301.2
39.50	0987.4	0987.7	0937.9	0988.1	0988.3	0988.6	0988.8	0989.0	0989.8	0989.4
39.60	0989.7	0989.9	0990.1	0990.3	0990.6	8,0000	0991.0	0991.2	0991.4	0991.7
39.70	0991.9	0992.1	0992.3	0992.5	0992.8	0993.0	0993,2	0993.4	0993.7	0993.9
39.80	0994.1	0994.3	0994.5	0994.8	0995.0	0995.2	C995.4	0995•7	0995.9	0996.1
39.90	0996.3	0996.5	0996.8	0997.0	0997.2	0997.4	0997.7	0997•9	0998.1	0998.3
40.00	0998.5	0998,3	0999.0	0999.2	0999.4	0999,7	0999.9	1000.1	1.000.3	1000.5
40.10	1000.8	1901.0	1001.2	1001.4	1.001.7	1001.9	1002.1	1.002.3	1002.5	1002.8
40.80	1003.0	1003.2	1003.4	1003.6	1003.9	100/1.1	100/1.3	1004.5	1004.8	1.005.0
40.30	1005.2	1005,4	1005.6	1005.9	1006.1	1006.3	1006.5	8,0001	100/.0	1007.2
40.40	1007.4	1007.6	1007.9	1900.1	1008.3	1.008.5	1.000.8	1009.0	1009.2	1.009.4
40.50	1009.6	1009.9	1010.1	1010.3	1010.5	1010.8	1011.0	1011.2	1011.4	1011.6
40.60	1011.9	1012.1	1012.3	1012.5	1012.8	1013.0	1013.2	1013.4	1013.6	1013.9
40.70	1014.1	1014.3	1014.5	1014.8	1015.0	1015.2	1015.4	1015.6	1015.9	1016.1
40.80	1016.3	1016.5	1016.8	1017.0	1017.2	1017.4	1017.6	1017.9	1018.1	1.018.3
40.90	1018.5	1018.8	1019.0	1019.2	1019.4	1019.6	1019.9	1020.1	1.020.3	1020.5
41.00	1020.8	1021.0	1021.2	1021.4	1021.6	1021.9	1022.1	1022.3	1022.5	1022.7
41.10	1023.0	1023.2	1023.4	1.023.6	1023.9	1024.1	1.028.3	1024.5	1024.7	1025.0
41.20	1.025.2	1025.4	1025.6	1025.9	1026.1	1026.3	1026.5	1026.7	1027.0	1027.2
41.30	1.027.4	1027.6	1027.9	1020.1	1025.3	1023.5	1023.7	1029.0	1029.2	1029.4
41.40	1029.6	1029.9	1030.1	1030.3	1030.5	1030.7	1031.0	1031+8	1.031.4	1031.6
41.50	1031.7	1932.1	1032.3	1032.5	1032.7	1033.0	1033.3	1033,4	1033.6	1033.9
41.60	1934.1	1038.3	1034.5	1034.4	1035.0	1035.0	1035.4	1035.6	3,035.9	1036.1
41.70	1036.3	103	1056.7	1037.0	1937.:	1037 -4	3.937.6	1.937 • 7	1035.1	1038.3
51.80	1935.	2037	1032.0	20033.5	303.7.E	10007.6	1.037.7	3050.4	1000.3	1080.5
h4*20	$\gamma_{\bullet}(\mathrm{cd}_{\mathbb{C}})$	201-12	3055.4	1057*p	1045.	7.26-4.5	1017.5	10 ^j · · 3	3962.5	1940.7
				70.		G.,				

Temperature, "F

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							Refe	erence Ji	unction,	32°F
Millivoits	(6,	16.	• O.	.0,		•05	.00	.07	.03	.0)
\$21,00	0.00	2040	1083.8	10/6,7.0	1043.9	3.054.1	$i_{i}\partial k t_{i+3}$	1000	1044.7	1.045.0
42.10	1010.0	1042.4	1065.6	104ラップ	1045.1	1046.3	1046.5	1046.7	1047.0	1047.2
40.00	101.7.1	1047.6	1047.9	10/01.1	1,040.3	1048.5	1,043.8	1049.0	1049.2	1049.4
42.30	1049.0	1000.049	1050.1	1050.3	1050.5	1050.8	1051.0	1051.2	1051.4	1051.6
41-140	1051.9	1050.41	105.43	1052.5	1052.0	1053.0	1053.2	1053.4	1053.6	1053.9
42.50	1054 - 1	3 ، ار10	1054.5	1054.3	1055.0	1055.2	1055.4	1055.0	1055.9	1056.1
42.60	1056.3	1056.5	1056.6	1057.0	1057 2	1057.4	1057.6	1057.9	1058.1	1053.3
40.70	1.0	1058.8	105).0	1.059 • 0	1052.4	6. (در10	1059.9	1060.1	1050.3	1060.5
40.00	1000.0	1061.0	1001,0	1061.4	1061.6	1061.9	1062+1	1062.3	1062.5	1062.8
40.90	1003.0	1.003 • 2	1063.4	1003.6	1063.9	1004 . 1	1064.3	1064.5	1064.3	1065.0
43.00	1.065.11	1065.4	1065.7	1055.9	1006.1	1056.3	1066.5	1066.3	1067.0	1067.2
43.10	1067.4	1057.7	1067.9	1066.1	1050.3	1068.5	1068.8	1059.0	1059.2	1069.4
43.10	1069.7	1039.9	1070.1	1070.3	1070.5	1070.8	1071.0	1071.2	1071.4	1071.7
43.30	1071.9	1072.1	10/2.3	1072.5	10/2.0	1073.0	1073.2	1073.4	1073.7	1073.9
43.40	10/4.1	1074.3	1074.5	1074.3	1075.0	1075.2	1075.4	1075.7	1075.9	1076.1
.5•.*		201	20, 103	200	201,500	, , ,		12-1		,
43.50	1076.3	3070.0	1076.8	1077.0	10/7.2	1077.4	1077.7	1077.9	1073.1	1,070.3
43.60	1073.6	2,070 .3	1079.0	1.079 . 2	1079.4	1079.7	1079.9	1000.1	1030.3	1000.6
43.70	1080.0	19:110	1001.0	1071.4	1031.7	1001.9	1032.1	1092.3	1032.6	1032.8
43.80	1083.0	7033°5	1083.5	1033.7	1033.9	1084.1	1034.3	1084.6	3.4801	1085.0
43.90	1035.2	1035.5	1035.7	1035.9	1036.1	1.006.3	1036.6	1086.8	1037.0	1037.2
lub, oo	1001	1002 2	4007 1)	4000 4	1088.3	1088.6	1089.8	1089.0	1069.2	1089.5
44.00 44.10	1087.5	1087.7	1037.9	1098.1	1099.5	1090.8	1091.0	1091.2	1091.5	1.091.7
44.20	1091.9	1092.1	1090.1	1090.4	1090.8	1093.0	1091.0	1091.2	1093.7	1091.7
44.30	1.091.1	1.054.4	1094.6	1094.8	1095.0	1095.3	1095.5	1095.7	1095.9	1096.1
44.40	1096.4	1096.6	1096.3	1077.0	1097.3	1097.5	1097.7	1007.9	1.098 • 1	1098.4
***************************************	10,707	10,70.00	10,7	3.071.0			1071.	1001.0	3.000.0	20,000
44.50	1098.6	1098.8	1099.0	1099.3	1099.5	1099.7	1099.9	1100.1	1100.4	1100.6
44.60	1100.8	1101.0	1101.3	1.101.5	1.101.7	1101.9	1102.2	1102.4	1102.6	1102.8
44.70	1103.0	1103.3	1103.5	1.103.7	1103.9	1.104.2	1104.4	1.1.04 . 6	1104.8	1.105.0
44.80	1105.3	1105.5	1105.7	1.1.05.9	1106.2	1106.4	1106.6	1106.3	1107.1	1.107.3
44.90	1107.5	1107.7	1107.9	1108.0	1103.4	11.08.6	1108.3	1.107.1	1.109.3	1109.5
45.00	1109.7	1110.0	1110.2	1110.4	1110.6	1110.8	1111.1	1111.3	1111.5	1111.7
45. <u>1</u> 0	1112.0	1112.8	1112.4	1112.6	1.1.12.8	1113.1	1113.3	1113.5	1113.7	1114.0
45.20	111/1.0	1.1.14 .4	1114.6	1.114.9	1115.1	1115.3	1115.5	1115.7	1116.0	1115.8
45.30	1116.4	1110.6	1116.9	1117.1	1117.3	1117.5	1.1.17 . 3	1113.0	1113.2	1113.4
45.40	1118.6	1113.9	1112.1	1.1.19 - 3	1112.5	3112.8	1120.0	1120.2	1100.4	1120.6
45.50	1100.7	11771-1	1401.3	3401.5	11331.3	110.0	1100.8	133	11.11.7	1120.9
45.60	1123.1	1103.3	1123.5	1123.0	1300.0	11.4.	1178.4	1305.7	1100.9	1105.1
45.70	1105+3	1125.6	1125.8	1100.0	1470.0	22.20.2	2426.7	110c.9	1107.1	1127.3
45,80	1127.6	1107.8	11.7 - 0	11:01.0	100.5	1,103.7	1.100 (-)	1129.1	1107.3	1129.6
45.90	1129.3	1130.0	1130.2	1130.5	1130.7	1130.9	1131.1	1131.4	1131.6	1131.8
46.00	1132.0	1138.0	1130.5	110.7	1,132.9	1135.1	1133.4	1.133.0	1133.0	333F.0
46.10	1134.3	113/1.5	1134.7	13.35.9	1155.1	1130.4	1135.0	1.130.3	1136.0	1111 3
#6,20	1136.5	1136.7	1155.7	1137 -0	1437.4	1137.6	1.137 - 7	1133.0	1133.3	1337.5
46.30	1138 • 7	1133.9	1139 - 2	1159.1	3.139.6	1139.0	11/10.1	11/10.3	1049.5	1140.7
46.40	1140.3	11/1.2	11/11.4	21/1.6	1.141.5	1100.1	11/2.3	1142.5	1142.7	11/13.0
46.50	1143.0	1.143.4	1183.6	1463.1	1488。1	11/16.3	1.1/1/0.5	1.195.7	145.0	3.3/15**
46.60	1.1/15-4	11/0.6	1355.9	1 (66.)	1.000.	V1/46+5	1.156-7	14/7.0	1.147 - 0	1.187.4
46.70	1.147.0	11/17.0	21/50-1	3.36-1-3	17/100	11/65	(4),n	1.1/4.J + 2	1149.4	1389.0
46.30	1.1/1.1.7	1150.1	1150.3	1150.5	1150.5	1155.0	2351.2	1151.4	1151.7	1151.7
160. jo	11/22-1	#58°•3	110/0.5	11:40.	13/43.0	1153.4	4 A(x) • F	1153.7	1453.0	1.13/1 • 3
				Temp	erabure,	e it				

TABLE 4 CHROMEL-CONSTANTAN (Continued)

										. c-
M1111									tion, 32	
Millivolta		.01	.03	.03	. 04	.05	•06	ε07	•00	•09
17.00	1154.3	1154.6	115/1-9	1155.0	1155.2	1155.5	1.155.7	1155.9	1156.1	1156.3
47.10	1156.6	1156.8	1157.0	1157.2	1157.5	1157.7	1157.9	1158.1	1159.4	1158.6
47.20	1158.8	1159.0	1159.2	1159.5	1159.7	1159.9	1160.1	1160.4	1160.6	1160.8
47.30	1161.0	1161.3	1161.5	1161.7	1161.9	1162.2	1162.4	1162.6	1162,8	1163.0
47.40	1163.3	1163.5	1163.7	163.9	1164.2	1164.4	1164.6	1164.3	1165.1	1165.3
47.50	1165.5	1165.7	1165.9	1166.2	1166.4	1166.6	1166.3	1167.1	1167.3	1167.5
47.60	11.67.7	1168.0	1163.2	1168.4	1168.6	1168.9	1169.1	1169.3	1169.5	1169.7
47.70	1170.0	1170.2	1170.4	1170.6	1170.9	1171.1	1171.3	1171.5	1171.8	1172.0
47.80	1172.2	1172.4	1172.7	1172.9	1173.1	1173.3	1173.5	1173.3	1174.0	1174.2
47.90	1174.4	1174.7	1174.9	1175.1	1175.3	1175.6	1175.8	1176.0	1176.2	1176.5
*										
48.00	1176.7	1176.9	1177.1	1177.3	1177.6	1177.8	1178.0	1173.2	1173.5	1178.7
48.10	1178.9	1179.1	1179.4	1179.6	1179.8	1130.0	1180.3	1130.5	1180.7	1480.9
43.20	1181.1	1131.4	1.131.6	1181.8	1182.0	1182.3	1182.5	1182.7	1182.9	1103.2
48.30	1183.4	1183.6			1.184.3	1184.5	-	-		
			1183.8	1134.1			1184.7	1134.9	1185.2	1185.4
04.84	1185.6	1185.8	1186.1	1186.3	1186.5	1136.7	1187.0	1187.2	1187.4	1187.6
k0 ca			4400 0					Do h		
48.50	1107.9	1103.1	1169.3	1188.5	1188.0	1139.0	1139.2	1139.4	1.189.6	1189.9
48.60	1190.1	1190.3	1190.5	1190.3	1191.0	1191.2	1191.4	1191.7	1191.9	1192.1
48.70	1192.3	1192.6	1192.8	1193.0	1193.2	1193.5	1193.7	1.193.9	1194.1	1194.3
48.80	1194.6	1194.8	1195.0	1195.2	1195.5	1195.7	1195.9	1196.1	1196.4	1196.6
43.90	1196.8	1197.0	1197.3	1197.5	1197.7	1197.9	1198.1	1198.4	1198.6	1198.8
49.00	1199.0	1199.3	1199.5	1199.7	1199.9	1200.2	1200.4	1200.6	1200.3	1201.1
49.10	1201.3	1201.5	1201.7	1202.0	1202.2	1202.4	1202.6	1202.9	1203.1	1203.3
49.20	1203.5	1203.7	1204.0	1204.2	1204.4	1204.6	1204.9	1205.1	1205.3	1205.5
49.30	1205.8	1206.0	1206.2	1206.4	1206.7	1206.9	1207.1	1.207.3	1207.6	1207.8
49.40	1208.0	1203.2	1208.4	1208.7	1203.9	1209 . 1	1209.3	1209.6	1209.8	1210.0
49.50	1210.2	1210.5	1210.7	1210.9	1211.1	1511.4	1211.6	1211.6	1.212.0	1212.3
49.60	1212.5	1212.7	1212.9	1213.2	1213.4	1213.6	1213.8	1214.0	1214.3	1214.5
49.70	1214.7	1214.9	1215.2	1215.4	1215.6	1215.8	1216.1	1216.3	1216.5	1216.7
49.80	1217.0	1217.2	1217.4	1217.6	1217.9	1218.1	1218.3	1218.5	1218.8	1219.0
49.90	1219.2	1219.4	1219.7	1219.9	1220.1	1220.3	1220.5	1220.8	1221.0	1221.2
50.00	1221.4	1221.7	1221.9	1222.1	1222.3	1222.6	1222.8	1223.0	1223.2	1223.5
50.10	1223.7	1223.9	1224.1	1224.4	1224.6	1224.8	1225.0	1225.3	1225.5	1225.7
50.20	1225.9	1226.2	1.226.4	1226,6	1226.8	1227.0	1227.3	1227.5	1227.7	1227.9
50.30	1223.2	1228.4	1228.6	1228.8	1229.1	1229.3	1229.5	1229.7	1230,0	1230.2
50.40	1230.4	1230.6	1230.9	1231.1	1231.3	1231.5	1231.8	1232.0	1232.2	1232,4
	. •									
50,50	1232.7	1232.9	1233.1	1233.3	1233,6	1233.8	1234.0	1234.2	1234.5	1234.7
50,60	1234.9	1235.1	1235•3	1235.6	1235.8	1236.0	1236.2	1236.5	1:36.7	1236.9
50.70	1237.1	1237.4	1237.6	1237.8	1238.0	1238.3	1238.5	1.238.7	1238.9	1239.2
50.30	1239.4	1239.6	1239.8	1340.1	1240.3	1240.5	1240.7	1281.0	1291.2	1241.4
50.90	1241.6	1241.9	1242.1	1242.3	1242.5	1242.0	12h3.0	1243.2	1243.4	1243.6
30.30	1241.00	7047.0	TU-45 T	Teace	1646.0	12.112. # (7	16-15-0	J.C-1.J + L	±2-1,J +-1	2413.00
64.00	10/12 0	1244.1	1244.3	1244.5	1244.8	1245.0	1245.2	1285.4	1245.7	1845.9
51.00	1243.9			1246.8	1247.0	1247.8	1297.5	1247.7	3.247.9	1243.1
51.10	1246.1	1246.3	1246.6							
51.20	1248.4	1248.6	1243.8	1249.0	1249.3	1249.5	10/19.7	1249.0	1250.2	1250.4
51.30	1250.6	1250.3	1251.1	1251.3	1251.5	1251.7	1050.0	1050.2	1252.4	1250.6 andun
51.40	1252.9	1853.1	1253.3	1053.5	1253.8	1254.0	12:54 0	3056.4	3.5.11.7	1254.3
51.50	1255.1	1255.3	1055.5	1255.8	1256.0	1256.0	1256.4	3. 7	1256.0	1257.1
51.60	1257.3	£57.6	1′57.8	1520.0	1855.2	1050.5	25 57.3	1/5 - 2	17:50-1	1059.4
51.70	1259.6	1259.8	1560.0	1360.3	1260.5	15.0C .Y	3300.9	1000.0	1265.L	2261.6
51.80	1261.3	2:68.1	1262.3	1262.5	1261 .7	32:63.0	5.43.0	5005.4	10/3.6	40.3.9
51.90	1264.1	11 (41.3	126h.5	10.00	1005.0	2.75.0	80.00	**************************************	3.45.42	30%5.1
				en.		ο				

Temperature, or

TABLE 4 CHROMEL-CONSTANTAN (Continued)

		IADE	- 4 01	III OMIL L		IMITIA	it (Com	mueu)		
							Refe	rence Ju	nction,	32 ° F
Millavolts	.00	.01	٠٥.٠	•05	.0	•0;	.00	•07	.03	.09
52.00	1206.3	1205.0	10006	13.7.0	1.507.00	1067.5	1:67.7	1207.9	1268.1	
52.10	1263.6	1268.3	1269.0	1269.3	1209.5	1269.7	1269.9	1270.2	1270.4	1270.6
52,20	1270.8	1.271.1	1271.3	1271.5	1271.7	1272.0	1272.2	1272.4	1272.6	1272.9
52.30	1273.1	1273.3	1273.5	1273.0	1274.0	1274.2	1274 .4	1274.7	1274.9	1275.1
52.40	1275.3	1275.6	1275.8	1276.0	1276.2	1276.5	1276.7	1276.9	1277.1	
52.50	1277.6	1277.8	1278.0	1272.3	1273.5	1278,7	1278.9	1279.2	1279.4	1279.6
52.60	1279.8	1280.1	1280.3	1280.5	1280.7	1281.0	1281.2	1281.4	1281.6	1281.9
52.70	1082.1	1282.3	1282.5	1282.8	1233.0	1083.2	1233.4	1283.7	1283.9	1284.1
52.80	1284.3	1234.6	1234.8	1235.0	1235.2	1235.5	1285.7	1285.9	1286.1	1286.4
52.90	1286.6	1286.8	1237.0	1287.3	1287.5	1287.7	1287.9	1288.2	1283.4	1288.6
53.00	1238.3	1289.1	1209.3	1289.5	1309.7	1290.0	1290.2	1290.4	1290.6	1290.9
53.10	1291.1	1291.3	1291.5	1291.8	1890.0	1292.2	1292.4	1292.7	1292.9	1293.1
53.20	1293.3	1293.6	1293.8	1294.0	1.294.2	1294.5	1294.7	1294.9	1295.1	1295.4
53.30	1295.6	1295.8	1296.0	1296.3	1.296.5	1296.7	1296.9	1297.2	1297.4	1297.6
53.40	1297.8	1098.1	1298.3	1293.5	1290.7	1299.0	1299.2	1299.4	1299.6	1299.9
53.50	1300.1	1300.3	1300.6	1300.3	1301.0	13012	1301.5	1301.7	1301.9	1302.1
53.60	1302.4	1302.6	1302.0	1303.0	1303.3	1303.5	1303.7	1303.9	1304.2	1304.4
53.70	1304.6	1304.8	1305.1	1305.3	1305.5	1305.7	1306.0	1306.2	1306.4	1306.6
53.00	1306.9	1307.1	1307.3	1307.5	1307.3	1308.0	1308.2	1308.4	1303.7	1308.9
53.90	1309.1	1309.3	1300.0	1309.0	1310.0	1310.2	1310.5	1310.7	1310.9	1311.1
54.00	1311.4	1311.6	1311.3	1312.1	1315.3	1312.5	1312.7	1313.0	1313.2	1313.4
54.10	1313.6	1313.9	1314.1	1314.3	1314.5	1314.8	1315.0	1315.2	1315.4	1315.7
54.20	1315.9	1316.1	1316.3	1316.6	1316.8	1317.0	1317.2	1317.5	1317.7	1317.9
54.30	1318.1	1318.4	1310.6	1313.3	1319.0	1319.3	1319.5	1319.7	1319.9	1320.2
40.40	1320.4	1320.6	1320.9	1321.1	1321.3	1321.5	1321.8	1322.0	1322.2	1322.4
54.50	1322.7	1322.9	1323.1	1323.3	1323.6	1323.3	1324.0	1324.2	1324.5	1324.7
54.60	1324.9	1325.1	1325.4	1325.6	1325.8	1326.0	1326.3	1326.5	1326.7	1326.9
54.70	1327.2	1327.4	1327.6	1327.9	1328.1	1328.3	1328.5	1323.8	1329.0	1329.2
54.80	1329.4	1329.7	1329.9	1330.1	1330.3	1330,6	1330.8	1331.0	1331.2	1331.5
54.90	1331.7	1331.9	1332.1	1332.4	1332.6	1332.3	1333.0	1333.3	1333.5	1333.7
55.00	1334.0	1334.2	1334.4	1334.6	1334.9	1335.1	1335.3	1335.5	1335.8	1336.0
55.10	1336.2	1336.4	1336.7	1336.9	1337.1	1337.3	1337.6	1337.8	1338.0	1338.2
55.20	1338.5	1338.7	1338.9	1339.2	1339.4	:339.6	1339.8	1340.1	1340.3	1340.5
55.30	1340.7	1341.0	1341.2	1341.4	1341.6	1341.9	1342.1	1342.3	1342.5	1342.8
55.40	1343.0	1343.2	1343.4	1343.7	1343.9	13/4.1	1344.4	1344.6	1344.3	1345.0
55.50	1345.3	1345.5	1345.7	1345.9	1346.2	1346.4	1346.6	1346.8	1347.1	1347.3
55.60	1347.5	1347.7	1348.0	1348,2	1348.4	1343.7	1343.9	1349.1	1349.3	1349.6
55.70	1349.8	1350.0	1350.2	1350.5	1350.7	1350,9	1351.1	1351.4	1351.6	1351.3
	1352.0	1352.3	1352.5	1352.7	1353.0	1353.2	1353 - 4	1353.6	1353.9	1354.1
55.90	1354.3	135/1.5	1354.0	1355.0	1355.2	1355.4	1355.7	1355.9	1356.1	1356.3
FC 00	1256.6	1000 0	1257.0	1000 0	4250 5				0 !	
	1356.6	1356.8	1357.0	1357.3	1357.5	1357.7	1357.9	1353.2	1358.4	1358.6
	1353.8 1361.1	1359 • 1	1359.3	1359.5	1359.7	1360.0	1300.2	1360.4	1360.6	1360.9
	1363.4	1361.3 1363.6	1361.6	1361.8	1360.0	1362.2	1362.5	1362.7	1362.9	1363.1
	1365.6		1363.8	1364.0	1364.3	1364.5	1364.7	1365.0	1365.2	1365.4
JU • 44 U	0.COC*	1365.9	1366.1	1366.3	1366.5	1366.8	1367.0	1367.2	1367.4	1307.7
F6 F0	1967 0	1969 4	1368.4	1368.6	136%,3	1369.0	1260.2	4960.5	4260.9	4260.0
	1367.9 1370.2	1368.1					1369.3	1369.5	1369.7	1369.9
	1370.2 1372.4	1370.4	1370.6 1372.9	1370,0 1373.1	1371.1	1371.3	1371.5	1371.0	1372.0	1372.2
	1374.7	1374.9	1375.2	1375.4	1375.6	1373.6 1375.0	1373.0	1374.0	137h.2	1374.5
	1377.0	\$377.2	1377.4	1377.7	1377.5	1373.1	1370.1 1370.3	1376.3 1373.6	1376.5	1376.7
50.70	-511.0	~711.6					1∪•3	*210	1370.3	1379.0
				(Pe-m	nevature	o _E				

Temperature, oF

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							Refe	rence Ju	metion,	32 °F
Millivolts	.00	.01	.02	• 03	.04	.05	.06	.07	•03	.09
57.00	1379.2	1379.5	1372.7	1379.9	1330.1	1380.4	1330.6	1300.8	1301.1	1301.3
57.10	1301.5	1301.7	1380.0	1302.2	1382.4	1382.6	1332.9	1363.1	1303.3	1333.5
57.20	1303.8	1394.0	1384.2	1334.5	1384-7	1334.9	1385.1	1385.4	1385.6	1385.8
57.30	1386.0	1306.3	1306.5	1335.7	1387.0	1367.2	1387.4	1387.6	1337.9	1388.1
57.40	1388.3	1303.5	1338.5	1339.0	1389.2	1389.5	1389.7	1389.9	1390.1	1390.4
57.50	1390.6	1390.8	1391.0	1391.3	1391.5	1391.7	1392.0	1392.2	1392.1	1392.6
57.60	1392.9	1393 • 1.	1393.3	1393.5	1393.0	1394.0	1394.2	1354.5	1394.7	1394.9
57.70	1395.1	1395 · !!	1375.0	1395.8	1396.0	1396.3	1396.5	1396.7	1396.9	1397
57.80	1397 •4	1397.0	1397.9	1398.1	1398.3	1398.5	1390.0	1399.0	1399.2	1399.4
57.90	1399.7	1399.9	1400.1	1400.4	1400.6	1400.3	1401.0	1401.3	1401.5	1401.7
58.00	1/102.0	1402.2	1402.4	1402.6	1402.9	1403.1	1403.3	1403.5	1403.8	1404.0
	1404.2	1404.5	1404.7	1404.9	1405.1	1405.4	1405.6	1405.8	1405.0	1406.3
58.10 58.20	1406.5	1406.7	1407.0	1407.2	1407.4	1407.6	1407.9	1400.1	1408.3	1408.5
50.30	1400.8	1409.0	1,01.0	1409.5	1409.7	1409.9	1410.1	1/10.4	1410.6	1410.8
58.40	1/111.0	1411.3	1411.5	1411.7	1/12.0	1412.2	1412.4	1412.6	1412.9	1413.1
JO 1-10	1.11.10	22	1		212010	27,22,42	11111	20.000		
58,50	1413.3	1413.6	1413.3	1414.0	1414.2	1414.5	1414.7	1414.9	1415.1	1415.4
58.60	1415.6	1415.8	1116.1	1/116.3	1416,5	1416.7	1417 0	1417.2	1417.4	1417.6
58.70	1417.9	1418.1	1418.3	1418.6	1416.3	1419.0	1419.2	1419.5	1419.7	1419.9
58.80	1420.2	1420.4	1420.6	1420.8	1421.1	1421.3	1421.5	1421.7	1422.0	1422.2
58.90	1422.4	1422.7	1422.9	1423.1	1423.3	1423.6	1423.8	1424.0	1424.3	1424.5
£0.00	1424.7	1424.9	1425.2	1425.4	1425.6	1425.9	1426.1	1426.3	1426.5	1426.8
59.00 59.10	1427.0	1424.9	1427.4	1427.7	1427.9	1428.1	1428.4	1428.6	1428.3	1429.0
-	1429.3	1029.5	1429.7	1430.0	1430.2	1430.4	1430.6	1430.9	1431.1	1431.3
59.20 59.30	1431.5	1431.8	1/1321.0	1/132.0	1432.5	1432.7	1432.9	1433.1	1433.h	1/133.6
59.40	1/133.8	1434.1	1434.3	1434.5	1434.7	1435.0	1435.2	1435.4	1435.7	1435.9
J21-10	1,0010	1.0.0	1.3.43		2.5.41	2.5540	2.5540	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		2.32.2
									. beer o	Alune o
59.50	1436.1	1436.3	1436.6	1436.8	1437.0	1437.3	1437 • 5	1/137.7	1437.9	1/138.2
59.60	1433.4	1438.6	1430.0	1439.1	1439.3	1439.5	1439.8	1/1/10.0	1440.2	1440.4
59.70	1440.7	1,440.9	1441.1	1441.4	1441.6	1441.8	1442.0	1442.3	1442.5	1442.7
59.80	1443.0	1443.2	1443.4	1443.6	1443.9	1444.1	1444.3	1444.6	1444.8	1445.0
59.90	1445.2	1445.5	1445.7	1445.9	1446.8	14.86.4	1446.6	1446.8	1447.1	1457.3
60.00	1447.5	1447.8	1443.0	1448.2	1148.4	1443.7	1440.9	1449.1	1449.3	1449.6
ύ0 . 10	1449.8	1450.0	11.50.3	1/150.5	±450.7	1450.9	1451.2	114.1.1	1451.6	1451.9
60.20	1452.1	1052.3	1452.5	1,452.3	1403.0	1453.2	1/153+5	1453.7	1453.9	1/15/4.1
60.30	1454.4	1454.6	1454.8	1455.1	1455.3	1455.5	1455.7	1456.0	1456.2	1456.4
60.40	1456.7	1456.5	1457.1	1457.3	1457.6	1/157.8	1456.0	1450.3	1453.5	1458.7
60.50	1458.9	1459.2	1459.4	1459.6	1459.9	1460.1	1460.3	1//60.5	1460.0	1561.0
60.60	1461.2	1461.5	1,461.7	1461.9	1562.1	1462.4	1460.6	1462.3	1/163.1	14.63.3
60.70	1463.5	1463.0	1464.0	1,464,7	1464.4	1464.7	1464.9	1465.1	1465.4	1465.6
60.80	1465.8	1466.0	1466.3	1466.5	1466.7	7461.0	7401.5	11:67 4	1467.6	1/167.9
60.90	1/163.1	1468.3	1460.6	1463.3	1469.0	1,469.2	1469.5	1469.7	1469.9	1570.2
C4 00	Alexo II	1470.6	1470,3	1471.1	1471.3	1471.5	1271.0	1572.0	1472.2	1672 · E
61.00 61.10	1470.4	1472.9	1673.1	1473.4	1473.6	3,473.8	14:74.0	11.74.3	1474.5	2474.7
61.20	1475.0	1575.8	1475.h	2475.7	1475.9	14.76.1	1576.3	1475.6	Jr76.0	1477.0
61.30	1577.3	2477.5	1477.7	1477.9	1570.0	1473.4	1471.	2073.9	1479 - 1	1579.3
61.40	1479.5	2472.3	14-30.0	1/00.2	1:30.5	1580.7	14:0.7	th 11.2	2571.5	1461.6
~=•··v	12.5	- ,,,,,		_	-					
61.50	1481.8	2875.1	1/20.3	1/132.5	14,33.0	1573.0	1833.2	11: .3.4	1/05.7	#35.7
61.60	1436.1	$\pm h(0) \cdot h$	T1981.0	22° 36°	0•رتطر	14.5.3	14-5-5	2 50	0	Miller
61.70	માંગલમ	2436.7	25.76.J	26.7.2	15 7.3	14.7.6	14 7.	Mr. O	1/: 4.3	11.5.5
61.50	\$E30.7	198-3.9	$M(J_{\theta})$	≤15" J.A.	M. 1.1	15.1.3	300.4	₩.70±2	9.50.	1,30
61.90	72.0	tyli je ti. ∎	4.77	25-25-7	95 d.	21:0	200	757 .	U K .	3699+1

Temperature, "F

TABLE 4 CHROMEL-CONSTANTAN (Continued)

		TABLE	: 4 CH	IROMEE.	CON51	CANTAL	4 (Confi	กษะส์)		
							hei	erence a	methor,	50 10
Millivoits	.00	.01	, O, 1	*115	, 02	ψOʻ,	, :1 -	.17,	,00	.00
62.00	2493.3	1603.4	4895	$(r, \mathcal{P}, \mathbf{o})$	7 . P.	(h,d)	$(\beta,\beta) = 1$	$\mathcal{H}_{i}(F_{i},\alpha)$	Stephen	30.00 P
õ.2 . 1,0	1099,0	105.3	1/196.1	16 a . 3	From La	11 14 4	9897.0	Margar	34.77 h	11: 7.7
62.20	1497.9	1495.1	1498.4	1498.6	1,4,55.3	1490.0	1499+3	$\mathcal{M}(\mathcal{A}_{1},\mathcal{A}_{2})$	1999.7	1500.0
62.30	1500.8	1500.4	1500.7	1900,9	3500.1	1501.3	1501.0	EUROLA	1990.0	1500.3
62.40	1502.5	1500.7	1500	150%	6,00,7	1506	1503.0	3505.3	1501+3	35,0 ⁴ 1.0
o2.50	1504.8	1505.0	35,05	بالموالم إ	1, 0, 7	5500.00	Later	1:0. 4	رخو ريا در [از	1506.9
62,60	1507.1	3507.3	5507.1	2.37.1	10000	9,500	NOME OF	5.07	Uα'•2	15007.0
62.70	1509.4	1,09.0	150%	0,00.5	5,300,3	1540.	tobet.	171,170	1619.0	Louis to the
62.80	1511.7	1511.9	Marie L	120. 3	\$5.40.00	indica.	351,555	1,43.3	1545.5	20.13.3
62.90	1514.0	1514.0	1516.8	1515.7	34.16.9	3535-1	وبدوره	Malput.	فسلجة	1550-1
			-							
63.00	1516.3	1510.5	1510.7	1,47.0	2027 40	1507.8	151.1.1	1517.9	1931.1	1533.4
63.10	1513.6	1948.8	1519.0	53.53	1,,100	539.7	1500.0	Q., O. ::	1, 0,1	1:0.7
63.20	1530.9	1501.1	1501.3	1561.0	314.1	5. 0	1,000.0	3.5324	3527	1923.0
63.30	1503.0	19.03.4	1523.0	2503.9	150 A . 3	5524 • 5	150%	15 11	3525.0	3525.3
63.40	1525.5	2505.7	1506.0	9500.0	the mate	1 5, 6, 6	1, 500	1937.1	1977.3	1507.0
051-10	20,700,7									
63.50	1907.4	1528.0	156	12.125	7	152 47	31.11	19: 1.4	2509.6	1.69.9
63.60	1930.1	0.30,3	20301.0	31 07 2	14.41.6	1501.0	15.75.4	6.34.7	1531.0	1530.0
63.70	1532.4	1530.6	3557-1	8:33.1	35353	3,33.0	4635.0	1/3/:0	1530.0	11,311.5
63.80	1534.7	1534.9	1935	المحوري	10,250	triber	1900.3	1930.3	1536.6	1536,8
63.90	1537.0	1537 .::	1537.5	195/+/	1537.0	1.5	(50.3 h	1939.6	1533.9	1539.1
75.70	-221.0	4.7.7	******							
64.00	1959.3	1539.6	19,31.6	gha.a	19/10.0	1,70.5	1.80.7	1560.9	4,70.00	15/11.4
64.10	25/11.6	35/11.9	15/12.1	tific.	1560.6	1585.4	123.5	358,342	15/13.5	1:413.7
64.20	1543.9	1544.2	358/LA	14/1/16	30/84.7	39/9.1	Ultra 3	1-45.0	1,35,3	15/16.0
Ø1.30	1546.2	1986.5	1949.7	475.7	3.77	1987.4	15/17	Longer	1:7: 1	4980.3
64.40	1548.6	15/0.3	3049.3	39 4	1,94	190.7	11,100	1.0.	1, 50.7	5.50.6
0.7.410	1,500	1,7	2. 71. 74.07		, , ,	.,	, ,			
64.50	1550.9	1551.1	1551.3	1994.6	4 - 1 5 2	(t_1, \ldots, t_r)	To the training	3.35	200	2.2.49
64.60	1553.0	3553.4	15:3.0	199,1.1	250,5243	5000	400	$A_1 + A_2 \cdot C$	1955.0	2556.3
64.70	1555+5	1555.7	1555.9	topian.	1200	10,000	2000	111111	1.7.3	Brillate
64.80	1557.8	1558.0	150%.3	355/45	\$55.47	2010367	1900	200	1., 5,2.00	1550.9
61,90	1560.1	1560.3	1900.0	1,440,	3524,1	1995.4	1:1,	3277	1971.0	39,600,00
65.00	1562.4	1500.0	1500	554.043	10/3.3	Apr. 5. 0	Anna	0.25.0	8785.5	tack.g
65.10	1565.7	1505.0	1565.1	15-5-4	Assert.	160 .2	Carry in	5-11-11	5,760,00	كالمهمورا
65,20	1507.0	1507.3	1567.5	1504.4	3-6-0	2000	Bur J.	3 / 1.7	2.26.	1:09.1
65.30	1569.4	1500ac	156.7.1	2570.1	5.72.5	70.	11.70.7	35,700	15 7 1 22	3572.4
65.40	1571.7	1571.2	1570.1	1.41.3	A:A +0	147 44	171.	1 / 3 . 3	1.73.5	3573
						·				
65,50	1975.0	2. 7h	4.76.	1. 717		17.5	4	0.75	14	1. 600
65.00	1570.3	15/6.5	1.400	1577.0	dillo	2776	347.7	11.73	2.40.0	2.7-2
65.70	157744	1971.7	2572.5	190	1.7.4	257	1 1,00	50 61,	11 0.4	1.00.7
65.80	15 0.7	25 1.47	15. 2.4	1 1.	4, 44.1	200	1 .		11.1	1
65,90	1523.3	1980.0	J. 3.7	1-, 7, 0		0.1.		1	A	10
66.00	1535.6	1505.0	$g_0 \ge 10$	357 . 3	3	20.2.1	4, 5, 4	1.17	* H.F	7.7
66.10	2507.9	1,771.1	40.00 %	46.54	100	- 22,3			1 1	1 - 47.0
66,70	1500.0	1500.	to 20.7	9.50	1,0,1	1. 11,		4.	10.2	4 - 6 - 1
66.39	1507.5	15000	0ررز	1	1.254.	5.244				19.00
66.46	159/1.9	1525-1	1577.3	15 E .	2. 1.	1 2 0		1,15.41	350	1.11.0
				-						
66,50	15 77.8	2011.5	25 9.7	31.363					4.00	
66,60	15/145	307.57	5.00.0	11.17.1	1. 10.1	6- P74 +	41.			. 11,0
65.79	3001.	1.	Erica I							
06,50	5.00t .:	Supt. F	9 O.	4.						
66.30	18206.5	50.3	1.0	4.	1 93	7.			9.	
O(€ JO	20/2/17		•					•		

group continues . E

TABLE 4 CHROMEL-CONSTANTAN (Continued)

							Re	ferenc≥ .	Junction	32 °u
Millivolts	.00	.01	.02	.03	•04	.05	•0G	.07	•03	.09
67.00	1608.3	1669.0	1609.3	1609.5	1609.7	1010.0	1610.2	1610.4	1610.7	1610.9
67.10	1611.1	1611.4	1611.6	1611.8	1612.1	1612.3	1.612.5	1612.8	1613.0	1613.2
67.20	1613.5	1613.7	1613.9	1614.2	1614.4	1614.6	1614.9	1615.1	1615.3	1615.6
67.30	1615.8	1616.0	1616.3	1616.5	1616.7	1617.0	1617.2	1617.4	1617.7	1617.9
67.40	1618.1	1618.3	1618.6	1613.8	1619.0	1619.3	1619.5	1619.7	1.620.0	1620.2
-14.4										200710
67.50	1620.4	1620.7	1620.9	1621.1	1621.4	1.621.6	16218	1622.1	1622.3	1622.5
67.60	1622.8	1623.0	1623.2	1623.5	1623.7	1.623.9	1624.2	1624.4	1624.6	1624.9
67.70	1625.1	1625.3	1625.6	1625.8	1626.0	1626.3	1620.5	1626.7	1627.0	1627.2
67.80	1627.4	1627.7	1627.9	1628.1	1628.4	1623.6	1628.8	1629.1	1629.3	1629.5
67.90	1629.6	1630.0	1630.2	1630.5	1630.7	1.630.9	1631.2	1631.4	1631.6	1.631.9
					- •					
68.00	1632.1	1632.3	1632.6	1632.8	1633.0	1633.3	1633.5	1633.7	1634.0	1634.2
68.10	1634.4	1634.7	1634.9	1635.1	1635.4	1635.6	1635.8	1636.1	1636.3	1.636.5
68,20	1636.3	1637.0	1637.2	1637.5	1637.7	1637.9	1638.2	1638.4	1638.6	1638.9
68,30	1639.1	1639.3	1639.6	1639.8	1640.0	1640.3	1640.5	1640.7	1641.0	1641.2
68.40	1641.4	1641.7	1641.9	1642.1	1642.4	1642.6	1642.8	1643.1	1643.3	1643.5
60.50	1643.3	1644.0	1544.2	1644.5	1644.7	1.644.9	1645.2	1645.4	1645.6	1645.9
68.60	1646.1	1646.3	1646.6	1546.0	1647.0	1647.3	1647.5	1647.7	1648.0	1648.2
68.70	1643.5	1643.7	1648.9	1649.2	1.649.4	1649.6	1649.9	1650.1	1650.3	1650.6
68.80	1650.8	1651.0	1651.3	1651.5	1651.7	1652.0	1652.2	1652.4	1652.7	1652.9
68.90	1653.1	1653.4	1653.6	1653.3	1654.1	1654.3	1654.5	1654.8	1655.0	1655.2
69.00	1655.5	1655.7	1655.9	1656.2	1656.4	1656.6	1656.9	1657.1	1657.3	1657.6
69.10	1657.8	1658.0	1658.3	1658.5	1658.7	1659.0	1659.2	1659•4	1659.7	1659.9
69.20	1660.1	1660.4	1660.6	1660.9	1661,1	1561.3	1661.6	1661.8	1662.0	1662.3
69.30	1662.5	1662.7	1663.0	1663.2	1663.4	1663.7	1663.9	1664.1	1664.4	1664.6
69.40	1664.8	1665.1	1665.3	1665.5	1665,8	:.666.0	1666.2	1666.5	1666.7	1666.9
69.50	1667.2	1667.4	1667.6	1667.9	1660.1	1663.3	1660.6	1660.0	1669.1	1669.3
69.60	1669.5	1669.3	1670.0	1670.2	1670.5	1670.7	1670.9	1671.2	1671.4	1671.6
69.70	1671.9	1672.1	1572.3	1672.6	1672.8	1673.0	1673.3	1673.5	1673.7	1674.0
69.80	1674.2	1674.4	1674.7	1674.9	1675.2	1575.4	1675.6	:.675.9	1676.1	1676.3
69.90	1676.6	1676.3	1677.0	1077.3	1677.5	1677.7	1678.0	1673.2	1678.4	1673.7
	-									
70.00	1673.9	1679.1	1679.4	1579.6	1679.8	1680.1	1.600.3	1680.5	1.680.5	1.681.0
70.10	1681.3	1631.5	1681.7	1632.0	1632.2	1032.4	1632.7	1682.9	1683.1	1603.4
70.20	1683.6	1603.0	16 4.1	1604.3	1684.5	1684.0	1605.0	1605.2	1635.5	1635.7
70.30	1636.0	1636.2	1036.4	1606.7	1606.9	1687.1	1607.4	1637.6	1637.5	1663.1
70.40	1688.3	1.633.5	1,000.6	1609.0	1639.7	1639.5	1639.7	1659.9	1690.2	1090 4
70.50	1690.7	1690.9	1694.1	1691.4	1691.6	1391.3	1690.1	1692.3	1.690-5	1.592.3
70.60	1693.0	1693.2	1693•5	1093.7	1693.9	1.094 • 2	1694.4	1.694.6	1694.9	1695.1
70.70	1695.4	1695.6	4695±8	169 • 1	1696.3	1090.5	1696.8	1697.0	1697 3	1.697.5
70.80	1697.7	1697.9	1695.2	169G.4	1698.7	1698.9	2699.1	1,699.4	1657.6	1699,5
70.90	1700.1	1700.3	1700.5	1700.0	1701.0	1701.0	1701.5	1701.7	1701.5	1708.0
								ah .	wal a	erent :
71.00	1702.4	1702.7	1702.9	1703.1	1793.h	1703.0	1703.0	1704.1	1705.3	1705.5
71.10	170/1.0	1705.0	1705.0	1705.	1705.7	1,700+0	170	1700°F	1700.7	3.705.9
71.20	1707.1	1707.4	1707.6	1707	1770-1	170.3	1700-5	1700	2709.0	1700ati
7130	1709.5	1709.7	1710.0	1710.	1710.4	1710.7	1710.9	1711.1	1711.4	1711.6
71.40	1711.3	1712.1	1712.3	1712.6	1710.C	1713.0	1713.3	1713.5	1713.7	1715.0
94 60	1974 b. C.	4774 h	avan e	tysh o	47/17 4	47/11 b	171: 1	4746. 0	1711 1	4746 =
71.50	1714.2	1715.4 1716.0	1715.7	1738 - 9	2715.1	1715-4	1715.6 171.50	1715.9	1715.1 1715.1	5716.3 5739.7
71.60	1716.6		1717.0	5757+3	27.77.5 273.2.2	177.7		17. O.	17::0	2/2014 1/2149
71.79 71.60	1715.0 1721.3	1719.8 1781.9	1719.5 1721.6	1722.0	2722.42 2722.42	17: 9 · 1 17: • · >	2700.5 2787	17(2.7	27:24	17:5.L
71.90	1703.6	1763.9 1763.9	1735 .1	17:3 ·4	177.5.o	37:当・	37:5.3	27:5.3	37.50	2/000
12.50	-1)*0	11-3+7	A1 65" + ±				24.517	ذ. +ئي، (ع∴	1 2.5	·· [· · · · · · · · ·
				TP ₂	onne na tur	6. OF				

Temperature, °F

TABLE 4 CHROMEL-CONSTANTAN (Concluded)

							Kefer	ence Jun	etion, 3	2 ° F
Millivolts	.00	.01	•02	•03	\cdot $0l!$.05	.06	.07	€0.	.09
72.00	1726.0	1726.2	1726.5	1726.7	1726.9	1727.2	1727.4	1727.7	1727.9	1728.1
72.10	1728.4	1728.6	1723.0	1729.1	1729.3	1729.6	1729.8	1730.0	1730.3	1730.5
72.20	1730.7	1731.0	1731.2	1731.4	1731.7	1731.9	1732.2	1732,4	1732.6	1732.9
72.30	1733.1	1733.3	1733.6	1733.8	1734.0	1734.3	1734.5	1734.8	1735.0	1735.2
72.40	1735.5	1735.7	1735.9	1736.2	1736.4	1736.6	1736.9	1737.1	1737.4	1737.6
72.50	1737.8	1733.1	1738.3	1738.5	1738.8	1739.0	1739.2	1739.5	1739.7	1740.0
72.60	1740.2	1740.4	1740.7	1740.9	1741.1	1741.4	1741.6	1741.9	1742.1	1742.3
72.70	1742.6	1742.3	1743.0	1743.3	1743.5	1743.7	1744.0	1744.2	1744.5	1744.7
72.80	1744.9	1745.2	1745.4	1745.6	1745.9	1746.1	1746.4	1746.6	1746.8	1747.1
72.90	1747.3	1747.5	1747.8	1748.0	1748.2	1748.5	1748.7	1749.0	1749.2	1749.4
73.00	1749.7	1749.9	1750.1	1750.4	1750.6	1750.9	1751.1	1751.3	1751.6	1751.8
73.10	1752.0	1752.3	1752.5	1752.8	1753.0	1753.2	1753.5	1753.7	1753.9	1754.2
73.20	1754.4	1754.7	1754.9	1755.1	1755.4	1755.6	1755.8	1756.1	1756.3	1756.5
73.30	1756.8	1757.0	1757.3	1757.5	1757.7	1758.0	1753.2	1758.4	1758.7	1758.9
73.40	1759.2	1759.4	1759.6	1759.9	1760.1	1760.3	1760.6	1760.8	1761.1	1761.3
73.50	1761.5	1761.8	1762+0	1762.2	1762.5	1762.7	1763.0	1763.2	1763.4	1763.7
73.60 73.70	1763.9 1766.3	1764.1 1766.5	1764.4 1766.8	1764.6 1767.0	1764.9 1767.2	1765.1 1767.5	1765.3	1765.6 1768.0	1765.8	1766.0
73.80	1768.7	1768.9	1769.1	1769.4	1769.6	1769.9	1767.7 1770.1	-	1768.2 1770.6	1768.4
73.90	1771.0	1771.3	1771.5	1771.8	1772.0	1772.2	1772.5	1770.3		1770.8
13.90	111110	111112	111119	T[110	1112.0	1112.2	1115.0	1772.7	1772.9	1773.2
74.00	1773.4	1773.7	1773.9	1774.1	1774,4	1774.6	1774.8	1775-1	1775-3	1775.6
74.10	1775.8	1776.0	1776.3	1776.5	1776.7	1777.0	1777.2	1777.5	1777.7	1777.9
74.20	1778.2	1778.4	1778.7	1778.9	1779.1	1779.4	1779 6	1779.8	1780.1	1730.3
74.30	1780.6	1780.8	1781.0	1781.3	1781.5	1781.7	1782.0	1782.2	1782.5	1782.7
74.40	1782.9	1783.2	1783.4	1783.7	1733.9	1734.1	1734.4	1734.6	1734.8	1785.1
74.50	1785.3	1785.6	1705.0	1786.0	1705.3	1736.5	1786.8	1787.0	1737,2	1787.5
74.60	1787.7	1787.9	1788.2	1788.4	1783.7	1788.9	1789.1	1739.4	1789.6	1789-9
74.70	1790.1	1790.3	1790.6	1790.3	1791.0	1791.3	1791.5	1791.8	1792.0	1792.2
74.80	1792.5	1792.7	1793.0	1793.2	1793.4	1793.7	1793.9	1794.1	1794.4	1794.6
74.90	1794.9	1795.1	1795.3	1795.6	1795.8	1796.1	1796.3	1796.5	1796.8	1797.0

Temperature, °F

Table 5
Plat.-Plat.
+ 10% Rhodium

TABLE 5

TEMPERATURE VS MILLIVOLTS FOR
PLATINUM-PLATINUM + 10% RHODIUM THERMOCOUPLES

								• • • • • •		0.
									Junction	
Millivelts	.00	.01	•00	.03	.04	,0°5	•0u	.97	.03	.07
30.00	0038.8	0035.4	0030.0	00/14/1	0.را'00	0046 • 2	0051.3	0054.5	0057.€	0000.7
00.10	0005	00000.7	0009.5	0070.0	0070.0	0.070	00002.0	0,6500	2227.9	0.0000
00.20	9093	7.0000	0099.6	0102.5	010	0103.3	0111.1	0114.0	0115.0	0119.6
00.30	015.1.4	010,0	0100.0	0130.3	0133.5	0156.8	0139.0	0141.7	01/4/1.4	0147.1
00.40	0149.0	0150.0	0155.1	0157.3	0100.5	0163.0	01.65.7	0163.3	0170.9	0173.4
00.50	0176.0	044	0101.2	04.2.4	04.1.3	0138.0	0191.3	0193.3	01.70.3	0198,8
00.60	0201.3	0170.0	0206.3	01: 3.7 0209.8	0106.3	0213.7	0216.1	0210.6	0221.0	0293.4
00.70	0285.)	0228.3				0237.9	0240.3	0242.6	0245.0	0247.4
-			0230.7	0233.1	0235 . 5 0259 . 2		0203,0	0200.2	0268.5	0270.8
00.80 00.90	0249.7	0039a•1 0879•9	0254.5 0277.6	0256,8 0280,1	0232.4	0261.5 0234.6	0237.1	0289.4	0291.7	0.4630
00.70	01.1.542.	ر ∙ر ۱۰۰	0. 11.0	07.130	0. 0,	05.	01.01.1	020714	02311	0, 51,10
01.00	0:95.3	0290.5	0300.7	0303.0	0305.0	0307.4	0309.7	0311.9	0314.1	0316.4
01.10	0313.0	0320.8	0323.0	0325.2	03::7.4	03::9.7	0331.9	0334.1	0336.3	0338.5
01.20	0340.7	03/12.9	0345.1	0347.2	03/19.4	0351.6	0355.0	0356.0	0350+2	0360.3
01.30	0352.5	0304.7	0366.8	0367.0	0371.0	0373.3	0375.5	0377.0	0379.8	0331.9
01.40	0334.1	0306.2	0335.4	0390.5	0392.6	0394.8	0396.9	0399•0	0401.2	0403.3
01.50	0105.4	01:07.6	0403.7	0511.0	0/113.9	0416.6	3418.1	0400.5	0422.3	0424.5
01.60	0420.5	04:3.7	0430.8	0432.8	04:34.9	0437.0	0439.1	0441.2	0///3.3	0445.4
01.70	old.7	olili, 1,5	0151.6	04:53.7	ن،زرناه	0457.3	3455.9	04:02.0	0464.0	0465.1
21.80	0463.2	0ξ.λ0°5	0472.3	0474.3	0476.4	0673.4	0430.5	0403.5	0484.6	0436.6
01.90	0435.7	0490.7	0495.4	0494.8	0496.8	0£38*5	0500.9	0502.9	0504.5	0 07 00ر
00.00	0.010	0144.0	00.43 0	0040.0	0: 47. 4	Acad a	0000	2002.4	0.:0. 4	00011 4
02.00 02.10	050).0 050).1	0511.0 0531.1	0513.0 0533.1	0515.0 0535.1	0517.1	0539.1	0501.1	0523.1 0543.1	0525•1 0545•1	0527.1 0547.1
02.10	0):5:1	0))1.1	0553.1	0555.1	0557.1	0559.1	0561.0	0563.0	0565.0	0567.0
02.30	0560.3	0570.9	0572.9	0574.9	0576.3	0573.8	0530.3	0,03.0	0534.7	0536.7
05.40	050.00	0590.6	0592.6	0594.5	0596.5	0593.4	0600.4	0602.3	0604.3	0500.3
0	9,7.7.1.	0,70.0	0372.40	0,0,74.7	0,50.5	0,550	00001-1	00011	000.13	000043
				26.11. 2	2010 -		*****			
02.50	0608.2	0610.1	0612.1	0614.0	0616.0	0017.9	0619.9	0621.3	0623.8	0625.7
02.60	0627.6	0689.6	0631.5	0033.5	0635.4	0637.3	0639.3	0641.2	0643.1	0545.0
02.70	06/17.0	0648.9	0650.8	0652.8	0654.7	0656.6	0653.5	0660.4	0662,4	0064.3
02,80	0666.2	0668.1	0670.0	0672.0	0673.9	0675.8	0677.7	0679.6	0681.5	0603.4
02,90	0685.4	0637.3	0699.8	0691.1	0693.0	0694.9	8,0000	0608.7	0700.6	0702.5
03.00	0704.4	0706.4	0705.3	0710.2	0712.1	0714.0	0715.9	0717.8	0719.7	0721.6
03.10	07:3.5	0725.4	0727.3	0729.1	0731.0	0732.9	0734.8	0736.7	0738.6	0740.5
03.20	0742.4	0744.3	0746.3	0748.1	3749.9	0751.3	0753.7	0755.6	0757.5	0759.4
03.30	0761.3	0763.1	0765.0	0766.9	0763.8	0770.7	0772.5	2774.4	9776.3	0773.2
03.40	0780.1	0731.9	0783.8	0785.7	0787.6	0789.4	0791.3	0793.2	0795.0	0796.9
03.50	8,8670	0300.7	0806.5	0304.4	0806.3	0808.1	0310.0	0811.9	0.13.7	0315.6
03.60	0817.5	0819.3	0821.2	0023.1	0824.9	0026.8	03:5.6	0530.5	0832.4	0034.2
03.70	0636.1	083y.9	0339.8	0341.6	0643.5	0845.4	0347.2	0349.1	0350.7	9852.8
03.80	0354.6	0856.5	0850.3	0000.2	0562.0	0863.9	03€5.γ	0567.6	0369.4	0371.3
03.90	9373.1	0374.9	0376.3	$0975 \cdot \hat{n}$	0000.5	0882.3	0394.2	0.000	0037.5	0.339.7
مد مد	0.2004	00000-1	00.5	0	0000	01.00	A: 42:	01.01.1	0.00	0.00
	0391.5	9893.E	0395.8	0.000	0393.9	9900.7	0900.5	0004.4	0,06.1	0,,,00
	0909.9	0221.7	0913.5	0315.4	0.127.2	0.037 3	0,00,0	0,350-7	ort.	9.08.3 0.01.7
	0980.8	0930.0	0931.3	00033.6	0335.5	0937.3	0935-1	control	9./40.	0.44.6
	oykë.n ovet	096	0950.9	0051.9	0953.7	0955.5	9957+3	0.597.1	0,60.5	95
04.40	Opoli	091.0	O.n.: •:	o 40.0	97/1.	29//3•0	9/15.5	9 Tt+5	0171.3	07.0.7
o/: ₊÷,0	0 <i>5</i> ; .7	201.0	01/6.3	373	97:3.9	9771.7	029, •,.	9-95-3	2011.1	200
oh, no	1000.7	100	1001.4	1900	190	3,90).	1911.5	1013.5	4.04	194 .7
oF,70	1011.7	1000.	44	100 / 1	2001.0	10:7.7	1000.5	1051.5	1951	100.0
04.10	100.7	104	ywa	· ::::::::::::::::::::::::::::::::::::	102	5.205.0	2007	of a	39-11-0	.97.
04.70	1015.0	$\omega_{\mathbb{N}^{n}}$	100	. > ·. ·	51.1	22.1	29 -	19.179	/ P	1111
					20.000					

řemperature, "7

TABLE 5 PLATINUM-PLATINUM + 10% RHODIUM (Continued)

	TABL	E 5 P	LATINU	IM-PLA	TINUM -	+ 10% R				
							Refer	ence June	etion, 3	2°F
Millivolts	.00	.01	.02	.03	.04	.05	.06	.07	.08	.09
05.00	1072.4	1074.2	1075.9	1077.7	1079.5	1031.3	1083.0	1084.8	1086.6	1088,4
05.10	1090.1	1091.9	1093.7	1095.5	1097.2	1099.0	1100.8	1102.5	1104.3	1106.1
05.20	1107.8	11.09.6	1111.4	1113.1	1114.9	1116.7	1118.4	1120.2	1122.0	1123.7
05.30	1125.5	1127.3	1129.0	1130.8	1132.5	1134.3	1136.1	1137.8	1139.6	1141.3
05.40	1143.1	1144.8	1146.6	1148.3	1150.1	1151.9	1153.6	1.155.4	1.157.1	1158.9
•										
05.50	1160.6	1162.4	1164.1	1165.9	1.167.6	1169.4	1171.1	1172.9	1174.6	1176.4
05.60	1178.1	1179.8	1181.6	1183.3	1185.1	1186.8	1188.6	1190.3	1192.0	1193.8
05.70	1195.5	1197.3	1199.0	1200.7	1202.5	1204.2	1206.0	1207.7	1209.4	1211.2
05.80	1212.9	1214.6	1216.4	1218.1	1219.8	1221.6	1223.3	1225.0	1226.7	1228.5
05.90	1230.2	1231.9	1233.7	1235.4	1237.1	1238.8	1240.6	1242.3	1244.0	1245.7
06.00	1247.5	1249.2	1250.9	1252.6	1254.4	1256.1	1257.8	1259.5	1261.2	1263.0
06.10	1264.7	1266.4	1268.1	1269.8	1271.6	12,3.3	1275.0	1276.7	1278.4	1280.1
06.20	1281.8	1283.6	1285.3	1287.0	1288.7	1290.4	1292.1	1293.8	1295.5	.1297.2
06.30	1298.9	1300.7	1302.4	1304.1	1305.8	1307.5	1309.2	1310.9	1312.6	1314.3
06.40	1316.0	1317.7	1319.4	1321.1	1322.8	1324.5	1326.2	1327.9	1329.6	1331.3
06.50	1333.0	1334.7	1336.4	1338.1	1339.8	1341.5	1343.2	1344.9	1346.6	1,348.3
06.60	1349.9	1351.6	1353.3	1355.0	1356.7	1358.4	1360.1	1361.8	1363.5	1365.2
06.70	1366.8	1368.5	1370.2	1371.9	1373.6	1375.3	1377.0	1378.6	1380.3	1382.0
06-80	1383.7	1385.4	1387.1	1388.7	1390.4	1392.1	1393.8	1395.5	1397.1	1398.8
06.90	1400.5	1402.2	1403.8	1405.5	1407.2	1408.9	1/10.5	1412.2	1413.9	1415.6
07.00	1417.2	1418.9	1420.6	1422.3	1423.9	1425.6	1427.3	1428.9	1430.6	1432.3
07.10	1433.9	1435.6	1437.3	1438.9	1440.6	1442.3	1443.9	1445.6	1447.3	1448.9
07.20	1450.6	1452.3	1453.9	1455.6	1457.2	1458.9	1460.6	1462.2	1463.9	1465.5
07.30	1467.2	1468.8	1470.5	1472.2	1473.8	1475.5	1477.1	1478.8	1480.4	1482.1
07.40	1483.7	1485.4	1487.0	1488.7	1490.4	1492.0	1493.7	1495.3	1497.0	1498.6
07.50	1500.3	1501.9	1503.5	1505.2	1506.8	1508.5	1510.1	1511.8	1513.4	1515.1
07.60	1516.7	1518.4	1520.0	1521.6	1523.3	1524.9	1526.6	1528.2	1529.8	:531.5
07.70	1533.1	1534.8	1536.4	1533.0	1539.7	1541.3	1543.0	1544.6	1546.2	1547.9
07.80	1549.5	1551.1	1552.8	1554.4	1556.0	1557.7	1559.3	1560.9	1562.6	1564.2
07.90	1565.8	1567.4	1569.1	1570.7	1572.3	1574.0	1575.6	1577.2	1578.8	1580.5
9,170		1001.	1,0,,1	221011	101210	1,71 .10	2010	20110	2) 010	2,000.7
08.00	1582.1	1583.7	1585.3	1587.0	1588.6	1590.2	1591.8	1593.5	1595.1	1596.7
08.10	1598.3	1599.9	1601.6	1603.2	1604.8	1606.4	1608.0	1609.7	1611.3	1612.9
08.20	1614,5	1616.1	1617.7	1619.4	1621.0	1622.6	1624.2	1625.8	1627.4	1629.0
08.30	1630.7	1632.3	1633.9	1635.5	1637.1	1638.7	1640.3	1641.9	1643.5	1645.2
08.40	1646.8	1648.4	1650.0	1651.6	1653.2	1654.8	1656.4	1658.0	1659.6	1661.2
08.50	1662.8	1664.4	1666.0	1667.6	1669.2	1670.8	1672.4	1674.0	1675.6	1677.2
08.60	1678.8	1680.4	1682.0	1683.6	1685.2	1686.8	1688.4	1690.0	1691.6	1693.2
08.70	1694.8	1696.4	1698.0	1699.6	1701.2	1702.8	1704.4	1706.0	1707.6	1709.1
03.30	1710.7	1712.3	1713.9	1715.5	1717.1	1718.7	1720.3	1721.9	1723.4	1725.0
08.90	1726.6	1728.2	1729.8	1731.4	1733.0	1734.6	1736.1	1737.7	1739.3	1740.9
09.00	1742.5	1744.1	1745.6	1747.0	17/3.8	1750.4	1752.0	1753.5	1755.1	1756.7
09.10	1758.3	1759.9	1761.4	1763.0	1764.6	1766.2	1767.7	1769.3	1770.9	1772.5
09.20	1774.0	1775.6	1777.0	1773.3	1780.3	1781.9	1783.5	1785.1	1736.6	1788.2
09.30	1739.6	1791.4	1792.9	1774.5	1796.1	1757.6	1799.2	1800.8	1802.3	1803.9
09.40	1005.5	1907.1	1803.7	1910.2	1811.8	1313.4	1514.9	1816.5	1818.0	1819.6
09.50	1821.1	1822.7	1324.3	1825.8	1827.4	1828.9	1830.5	1832.0	1833.6	1835.2
09.60	1836.7	1838.3	1839.8	1841.4	1842.9	1844.5	1846.0	1847.6	1849.1	1850.7
09.70	1352.2	1853.8	1855.3	1856.9	1358.4	1860.0	1861.5	1863.1	1864.6	1866.2
09.80	1867.7	1869.3	1870.8	1872.4	1873.9	1875.4	1877.0	1878.5	1.0881	1831.6
09.90	1883.2	1884.7	1836.3	1357.8	139.3	10190.9	1898.4	1894.c	1395.5	1897.1
				Temp	erature,	o.b.				

TABLE 5 PLATINUM-PLATINUM + 10% RHODIUM (Continued)

	170		A 11(6)	11-1 2.04 1	1110111	10/0 101				
							He	ference	Junction	, 32 °F
Millivolta	co.	.01	• 00	.03	• 24	.05	•00	.07	.09	.09
10.00	1771.0	1,/00.1	1,201.7	1.03.0	1.10%.7	1503	1907.0	1509.4	1910.9	1912.4
10.10	1914.0	1.45.5	3,237.3	172.00	10.0.1	1001.7	1:25.	1924.7	1926.3	1927.3
10.20	1909.3	130.)	1,30,5	1933.9	393p.5	1937.0	1930.5	1940.1	1941.6	1943.1
10.30	1994.7	1980.2	1,57.7	1.49.3	1950.8	1950.3	1953.9	1955.4	1956,9	1955.4
10.1:0	19-0.0	1,761.9	1,903.0	12.5.0	10.0.1		1907.1	1970.7	1972.2	1973.7
10.10	April and The s	270,40	171.710	36,24277 \$ 63	30000	3701.0	1.70.711	17/01/	1.7 C + 1.	221341
10.50	1975.3	1976.3	4 77 1 2	1579.3	1951.4	1902.9	1934.4	1935.9	1987.4	1939.0
			1.770.3							
10.60	1990.5	1992.0	1993.5	1995-1	1226.6	1.093 • 1	1999.6	5001.2	2002.7	200/1-2
10.70	2005.7	2007.2	2003.8	2010.3	2011.3	:013.3	2010.8	2016,4	2017.9	2019.4
10.30	2020.9	2022.4	2024.0	2025.5	0.750	2020.5	2030.0	2031.5	2033.1	2034.6
10.90	2036.1	2037.6	2039.1	2010.6	2045.5	2013.7	2045.2	2046.7	2048.2	2049.7
11.00	2051.3	8050	2054.3	2055.3	2057.3	2053.3	2060.3	8,1003	2063.4	2054.9
11.10	2066.4	2067.9	2069.4	2070.9	2072.4	2073.9	2075.5	2077.0	2073.5	2030.0
11.20	2081.5	2083.0	2034.5	2036.0	2037.5	2039.1	2000.6	2092.1	2093.6	2095.1
11.30	2096.6	2098.1	2099.6	2101.1	2102.6	2104.1	2105.6	2107.2	2108.7	2110.2
11.40	2111.7	2113.2	2115.7	2116.2	2117.7	2119.2	2120.7	2122,2	2123.7	2125.2
11.50	2126.7	2128.2	8.6315	2131.3	2132.8	2134.3	2135.8	2137.3	2138,8	2140.3
11.60	21/11.8	2143.3	21/14.8	21/16.3	2147.8	21/19.3	2150.8	2152.3	2153.8	2155.3
11.70	2156.3	2158.3	2159.8	2161.3	2162.8	2164.3	2165.8	2167.3	2168.3	2170.3
11.80	2171.8	2175.4	2174.5	2176.4	2177.9	2179.4	2180.9	2162.4	2183.9	2165.4
				2191.4	2192.9	2194.4	2195.9	2197.4	2198.9	2200.4
11.90	21,86.9	2188.4	2189.9	5131.0	2735.3	C.1.74 • 11	2123.3	C171.4	CTN1+3	2200.4
45.00		aces li	oogli o	anac li	2007 ()	anno li	0040.0	0040.3	0043 0	0045.0
12.00	2201,9		2201.9	2206.4	2207.9		2210.9	2212.3	2213.8	2215.3
12.10	2216.8	2216.3	2219.8	2221.3	2222.3	_	-	2227,3	2228.8	2230.3
12.20	2231.8	2233.3	2234.8	2236.3	2237.8	2239.3	2240.3	c242.3	2243.8	2245.3
12.30	2246.8	2248.3	2249.8	2251.3	2252.8		2255.8	2257.3	2258,8	2260.3
12.40	2261.6	2263.3	5564.8	2266.3	8267.8	2869.2	2270.7	2272.2	2273.7	2275.2
•-										
40.10	6 11 11						_			
12,50	6.246.5	5.7°.3	2279.7	2291.0	2286.7	2501.2	3550.3	2257.0	cogn 3	5290.2
12.60	2291.7	2293.2	2294.7	8296.2	2297.7	2299.2	2300.7	2302.2	2303.7	2305.1
12.70	2306.6	2303.1	0309.6	2311.1	2312.6	2314.1	2315.6	2317.1	2318.6	2320.1
12.80	2321.6	2323.1	2324.6	8326.1	2327.6	2329 • 1	2330.6	2332.1	2333.6	2335.1
12.90	2336.6	2333.0	2339.5	2341.0	2342.5	2344.0	2345.5	2347.0	2348.5	2350.0
13.00	2351.5	2353.0	2354.5	2356.0	2357.5	2359.0	2360.5	2362.0	2363.5	2365.0
13.10	2366.5	2363.0	2369.5	2370.9	2372.4	2373.9	2375.4	2376.9	2378.4	2379.9
13.20	2381.4	2382.9	2384.4	2385.9	2367.4	2388.9	2390.4	2391.9	2393.4	2394.9
13.30	2396.4	2397.9	2399.4	2400.9	2402.4	2/103.9	2405.4	2406.9	2408.3	2409.8
13.40	2411.3	2412.8	2414.3	2415.3	2417.3	2418.8	2/120.3	2421.8	2423.3	2424.8
							0	21210	E 12313	E 11. 14 G
13.50	2426.3	2427.8	2429.3	2430.8	2432.3	2433.8	2435.3	2436.8	2438.3	2439.3
13.60	2441.3	2442.8	2444.3	2445.8	2447.3	8.8448	2450.3	2451.8	2453.3	2454.8
13.70	2456.3	2457.8	2469.3	5460.6	2/162.3	2463.3	2465.3	2466.8	2468.3	2469.8
13.80	2471.3	2472.8	2474.3	2475.8	2477.3	2478.8	2480.3	2481.8	2433.3	2484.8
13.90	2486.3	2487.8	2489.3		2492.3		-			
13.70	2400.0	2401.0	2409+3	2490.8	2428.3	2493.8	2495.3	2496.8	2498.3	2499.8
14.00	2501.3	2502.8	nant 2	OF OF 9	00000	00.00	0040.0	0044 9	0042.2	onah 9
14.10	2516.3	2517.8	2504.3	2505.8	2507.3	2505.8	2510.3	2511.8	2513.3	2514.3
			2519.3	2520.8	2522.3	2523.9	2525.4	2525.9	2523.4	2529.9
14.20	2531.4	2532.9	2534.4	2535.9	2537	2533.9	25k0.4	2541.7	2543,4	2544.9
14.30	25/16.4	2547.9	05/19+4	2551.0	2558.5	255h.o	2950.0	2557.0	2559.5	2560.0
14.40	25615	2563.0	6964.9	0.000	S 07+5	0.00ر	25/0.9	2570-1	1573.6	2575.1
1/1.50	2576.0	05777.3		25 FF	150 Tetras	15. 3.2	7	11.7	1 5.7	2500.2
14.60	8594.7	25/93 • 2	にこめ・ 7	12 47.53	25/7.2	0.9.3	1600, 1	PORT.	14 03•	2505.3
14.70	2606.1	2605.0	(907%	2611.0	00,000	D. 16. •0	2635.6	2027.1	0.445.6	2629.1
34.30	5605.6	964.1	2004.0	9669	: 667.7	1. 1. Jan	1.59.7	1623	+ 33.7	2435.0
14.90	:636.7	1801.	1.51,1	t they are	$\sim L$.		5 h ;	1.17	: 35.0	$, i_{2}, i_{3}h$
				Tem	perature	, °#				

TABLE 5 PLATINUM-PLATINUM + 10% RHODIUM (Concluded)

						1070 101	1001017	Conch	muuj	
							Rei	erence J	unction,	32 °F
Millivolta	.00	.01	.02	.03	• 014	• 05	.06	.07	.08	.09
15.00	2651.9	2653.4	2654.9	2656.4	2657.9	2659.4	2660.9	2662.5	2664.0	2665.5
15.10	2667.0	2669.5	2670.0	2671.5	2673.0	2674.6	2676.1	8677.6	2679.1	2630.6
15.20	2632.1	2683.6	2605.1	2686.7	2688.2	2689.7	2691.2	2692.7	2694.2	2695.7
15.30	2697.3	2693.8	2700.3	2701.8	2703.3	2704.8	2706.3	2707.8	2709.4	2710.9
15,40	2712.4	2713.9	2715.4	2716.9	2718.4	2719.9	2721.5	2723.0	2724.5	2726.0
15.50	2727.5	2729.0	2730.5	2732.1	2733.6	2735.1	2736.6	2738.1	2739.6	2741.1
15.60	2742.7	2744.2	2745.7	2747.2	2743.7	2750.2	2751.7	2753.2	2754.8	2756.3
15.70	2757.8	2759.3	2760.8	2762.3	2763.8	2765.4	2766.9	2768.4	2769.9	2771.4
15.80	2772.9	2774.5	2776.0	2777.5	2779.0	2780.5	5,65°0	2783.5	2785.1	2786.6
15.90	2788.1	2789.6	2791.1	2792.6	2794.1	2795.7	2797.2	2798.7	5800.5	2801.7
16.00	2803.2	2804.8	2306.3	2807.8	2809.3	2810.8	2812.3	2813.9	2315.4	2816.9
16.10	2818.4	2819.9	2321.4	5853.0	5854*2	S8SC•0	2827.5	5853.0	2830.5	2832.1
16.20	2833.6	2835.1	2836.6	2838.1	2839.6	2841.2	2842.7	2844.2	2345.7	2847.2
16.30	2848.8	2850.3	2851.8	2853.3	2354.3	2356.3	2857 9	2859.4	5860.5	2862.4
16.40	2863.9	2865.5	2867.0	2368.5	2870.0	2371.5	2873.1	2374.6	2876.1	2877.6
16.50	2879.1	2880.7	2882.2	2883.7	2385.2	2336.7	2688.3	2889.8	2891.3	2892.8
16.60	2894.3	2395.9	2897.4	2893.9	2900.4	2901.9	2903.5	2905.0	2906.5	2908.0
16.70	2909.6	2911.1	2912.6	2914.1	2915.6	2917.2	2918.7	2920.2	2921.7	2923.3
16.80	2924.8	2926.3	8.7592	2929.4	2930.9	2932.4	2933.9	2935.5	2937.0	2938.5
1 6.90	2940.0	2941.5	2943.1	2944.6	2946.1	2947.6	2949.2	2950.7	2952.2	2953.7
17.CO	2955.3	2956,8	2958.3	2959.9	2961.4	2962.9	2964.4	2966.0	2967.5	2969.0
17.10	2970.5	2972.1	2973.6	2975.1	2976.6	2978,2	2979.7	2931.2	2932.8	2984.3
17.20	2985.8	2987.3	2988.9	8990.4	2391.9	2993.5	2995.0	2996.5	2998.1	2999.6
17.30	3001.1	3002.6	3004.2	3005.7	3007.2	3,003,8	3010.3	3011.6	3013.4	3014,9
17.40	3016.4	3017.9	3019.5	3021.0	3022.5	3024.1	3025.6	3027.1	3028.7	3030.2
17.50	3031.7	3033.3	3034.8	3036.3	3037.9	3039.4	3041.0	3042.5	3044.0	3045.6
17.60	3047.1	3048.6	3050.2	3051.7	3053.2	3054.8	3056.3	3057.8	3059.4	3060.9
17.70	3062.4	3064.0	3065.5	3067.1	3060.6	3070.1	3071.7	3073.2	3074.7	3076.3
17.80	3077.8	3079.4	3080.9	3032.4	3084.0	3085.5	3087.1	3088.6	3090.1	3091.7
17.90	3093.2	3094.8	3095.3	3097.8	3099.4	3100.9	3102.5	3104.0	31.05.5	3107.1
				-					22-2-3	J == 1 + ==
18.00	3108.6	3110.2	3111.7	3113.3	3114.8	3116.3	3117.9	3119.4	3121.0	3122.5
18.10	3124.1	3125.6	3127.2	3123.7	3130.8	3131.8	3133.3	3134.9	3136.4	3138.0
18.20	3139.5	3141.1	3142.6	31/1/1.2	3145.7	3147.3	3148.8	3150.4	3151.9	3153.5
18.30	3155.0	3156.6	3158.1	3159.6	3161.2	3162.7	3164.3	31,65.8	3167.4	3168.9
18.40	3170.5	3172.0	3173.6	3175.2	3176.7	3178.3	3179.8	3181.4	3182.9	3184.5

Temperature, oF

Table 6
Plat.-Plat.
+ 13% Rhodium

TABLE ()

TEMPERATURE VS MILLIVOLTS FOR

PLATINUM-PLATINUM + 13% RHODIUM THERMOCOUPLES

							R	eference	Junction	n, 32 °F
M11i1volts	.00	.Oi.	.0.3	•03	٠٥٤,	ر0.	•0ú	.07	ن00	•09
00,00	0031	بارد003	ن.د3∪0	0041.9	1.رنا00	0040.3	0051.5	0054.0	0057.8	0000.9
00.10	000	0007.1	0070.2	0073.8	0070.3	0079.3	0002.3	0035.3	0033.3	0091.3
00.20	00000	3077.1	0100.1	0103.0	0105.0	0100.7	0111.6	0114.4	9117.2	0120.0
00.30	01::2.0	0125.6	0123.4	0131.2	0133.9	0136.6	0139.3	0142.0	0144.7	0147.4
00.40	0150.1	0152.7	0155.4	0153,0	0160.6	0163.2	0165.8	0168.4	0171.0	0173.5
00.50	0176.1	0175.5	0181.2	0183.7	0136.2	0103.7	0191.2	0193 • ნ	0196.1	0198.6
00.60	0201.0	0203.5	0205.9	0203.3	0210.7	0213.2	0215.6	0217.9	0220.3	0222.7
00.70	0225.1	0227.4	0229.8	0232.1	0234.5	0236.8	0239.1	0241.5	0243.8	0246.1
00.30	0248.4	0250.7	0253.0	0255.3	0257.6	0259.8	0262.1	0264.4	0266.6	0268.9
00.90	0271.2	J273.4	0275.7	0277.9	0280.1	0282.4	0284.6	0286.8	0289.1	0.91.3
01.00	0293.5	0295.7	8-17220	0300.0	0302.2	0304.4	0306.6	0303.7	0310.9	0313.1
01.10	0315.2	0317.4	0319.6	0321.7	0323.9	0326.0	0328.2	0330.3	0332.4	0334.6
01.20	0336.7	0338.8	0340.9	0343.1	0345.2	0347.3	0349.4	0351.5	0353.6	0355.7
01.30	0357.0	0359.9	0362.0	0364.1	0356.2	0368.2	0370.3	0372.4	0374.5	0376.5
01.40	0370.6	0330.7	0332.7	033r*8	0386.8	0388.9	0391.0	0393.0	0395.0	0397.1
01.50	0399.1	0401.2	0403.2	01:05.2	0407.2	0409.3	0411.3	0413.3	0415.3	0417.3
01.60	04:19.3	0421.4	0423.4	0425.4	0427.4	0429.4	0431.4	0433.3	0435.3	0437.3
01.70	0439.3	04-11-3	0443.3	0445.2	0447.2	0449.2	0451.2	0453.1	0455.1	0457.1
01.80	0459.0	0461.0	0462.9	0464.9	0466.8	0468.8	0470.7	0472.7	0474.6	0476.6
01.90	0478.5	0480.4	0432.4	0484.3	0486.2	0488.1	0490.1	0492.0	0493.9	0495.8
02.00	0497.8	0499.7	0501.6	0503.5	0505.4	0507.3	0509.2	0511.1	0513.0	0514.9
02.10	3516.3	0518.7	0520.6	0522.5	0524.4	0526.3	0528.1	0530.0	0531,9	0533.8
02.20	0535.7	0537.5	0539.4	0541.3	0543.2	0545.0	0546.9	0548.8	0550.6	0552.5
02.30	0554.4	0556.2	0558.1	0559.9	0561.3	0563.6	0565.5	0567.4	0569.2	0571.0
02.40	0572.9	0574.7	0576.6	0578.4	0580.3	0582.1	0583.9	0585.8	0587.6	0589.5
02.50	0591.3	0593.1	0595.0	0596.0	0590.0	0600.4	0602.3	0604.1	0605.9	0607.7
02.66	0609.6	0611.4	0613.2	0615.0	0616.3	0618.6	0620.5	0688.3	0624.1	0625.9
02.70	0627.7	0629.5	0631.3	0633.1	0634.9	0636.3	0638.6	0640.4	0642.2	0644.0
02,80	0645.3	0647.6	0649.4	0651.2	0653.0	0654.8	0656.6	0653.4	0660,2	0662.0
02.90	0563.8	0665.5	0667.3	0669.1	0670.9	0672.7	0674.5	0676.3	0678.1	0679.9
03.00	0681.7	0683.5	0685.3	0687.1	0633.3	0690.6	0692.4	0694.1	0695.9	0697.7
03.10	0699.4	0701.2	0703.0	0704.7	0706.5	0708.3	0710.0	0711.8	0713.5	0715.3
03.20	0717.1	0718.8	0720.6	0722.3	0724.1	0725.8	727.6	0729.3	0731.1	0732.8
03.30	0734.6	0736.3	0738.1	0739.8	0741.6	0743.3	0745.1	0746.8	0748.6	0750.3
03.40	0752.1	0753.8	0755.5	0757.3	0759.0	0760.8	0762.5	0764.2	0766.0	0767.7
03.50	0769.4	0771.2	0772.9	0774.6	0776.4	0778.1	0779.3	0781.6	0783.3	0785.0
03.60	0786.7	0788.5	0790.2	0791.9	0793.6	0795.4	0797.1	0798.8	0800.5	0302.3
03.70	0804.0	0805.7	0807.4	0809.1	0810.8	0312.6	0814.3	0316.0	0817.7	0319.4
03.80	0821.1	0822.8	0824.6	0826.3	0828.0	0329.7	0831./i	0833.1	0834.8	0836.5
03.90	0838.2	0839.9	0841.6	0343.3	0845.0	0346.7	0348.4	0850.1	0351.8	0853.5
04.00	0855.2	0856.9	9856.6	0360.3	0362.0	0363.7	4. ر-036	0067.1	0368.8	03γο.5
04.10	0872.1	0873.8	0375.5	0377.2	0073.y	0880.6	0032.3	0884.0	0835.6	0837.3
04.20	0889.0	0890.7	0892.4	0894.1	0395.7	0397.4	0399.1	0900.3	0902.4	0904.1
04.30	0905.8	0907.5	0909.1	0910.3	0912,5	0914.2	0915.5	9217.5	0919.2	8.0500
04.30	0922.5	0924.2	0925.3	0927.5	00254.5	0930.8	0938.5	0934.2	0935.8	0937.5
04.50	0939.2	0940.8	0942.5	0944.1	0945.8	0247.5	0.240.1	0 950 . 3	0952.4	0954.1
04.60	0955.7	0957.4	0959.0	0960.7	0962.3	0964.0	00(5).0	0907.3	0960.9	07/0.6
04.70	0978.2	0973.9	0975.5	0977.2	0978.8	0950.5	00000.1	0973.8	0985.6	0907.0
04.80	0983.7	0990.3	0992.0	0993.6	0995.2	6996.9	0500.5	1000.1	1001.8	1003.4
04.90	1.005.0	1,006.7	1003.3	1007.9	1011.6	1013.7	1915.0	1016.5	1018.1	1019.7
					ngeratur					
						-				

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TABLE 6 PLATINUM-PLATINUM + 13% RHODIUM (Continued)

	1712				II COM	10/1 111				
							Refe	erence J	unction,	32 °F
Millivolts	.00	.01	•05	.03	·Off	.05	• 06	.07	30.	•09
05,00	1021.4	1023.0	1024.6	1026.2	1027.9	1029.5	1031.1	1032.7	1034.3	1036.0
05.10	1037.6	1039.2	1040.3	1048.4	1044.1	1045.7	1047.3	1048.9	1050.5	1052.1
05.20	1053.ડે	1055.4	1057.0	1053.6	1060.2	1061.3	1063.4	1065.0	1066.7	1068.3
05.30	1.069.9	1071.5	1073.1	1074.7	1076.3	1077.9	1079.5	1081.1	1082.7	1084.3
05.40	1035.9	1037.5	1000.1	1090.7	1092.3	1093.9	1095.5	1097.1	1093.7	1100.3
05.50	1101.9	1103.5	1105.1	1106.7	1103.3	11.09.9	1111.5	1113.0	1114.6	1116.2
05.60	1117.8	1119.4	1121.0	1122.6	1124.2	1125.3	1127.3	1128.9	1130.5	1132.1
05.70	1133.7	1135.3	1136.8	1138.4	1.140.0	1141.6	1143.2	1144.7	1146.3	1147.9
05.80	1149.5	1151.0	1152.6	1154.2	1155.8	1157.3	1158.9	1160.5	1162.1	1163.6
05.90	1165.2	1166.8	1168.3	1169.9	1171.5	1173.0	1174.5	1176.2	1177.7	1179.3
06.00	1180.9	1182.4	1184.0	1185.6	1187.1	1188.7	1190.3	1191.8	1193.4	1194.9
06.10	1196.5	1198.1	1199.6	1201.2	1202.7	1204.3	1205.8	1207.4	1209.0	1210.5
06.20	1212.1	1213.6	1215.2	1216.7	1218.3	1219.8	1221.4	1222.9	1224.5	1226.0
06.30	1227.6	1229.1	1230.7	1232.2	1233.7	1235.3	1236.8	1238.4	1239.9	12/11.5
06.40	1243.0	1244.5	1246.1	1247.6	1249.2	1250.7	1252,2	1253.8	1.255.3	1256.9
001-10	Jr. 1310	AC-1-1-1	11.1011	26.11.0	36.1716	1.000		2,55.00		
06.50	1258.4	1259.9	1261.5	1263.0	1264.5	1266.1	1267.6	1269.1	1270.7	1272.2
06.60	1273.7	1275.3	1276.8	1278.3	1279.9	1281.4	1282.9	1284.4	1286.0	1287.5
06.70	1289.0	1290.5	1292.1	1293.6	1295.1	1296.6	1298.2	1299.7	1301.2	1302.7
03.00	1304.2	1305.8	1307.3	1308.8	1310.3	1311.8	1313.4	1314.9	1316.4	1317.9
06.90	1319.4	1320.9	1322.4	1324.0	1325.5	1327.0	1328.5	1330.0	1331.5	1333.0
00.90	1213.4	1350.9	1366.4	1324.0	13:3:5	1321.0	1340,9	1330.0	روسررد	#339*O
07.00	4034 5	1336.0	1337.6	1339.1	1340.6	1342.1	1343.6	1345.1	1346.6	1348.1
-	1334.5								1361.6	1363.1
07.10	1349.6	1351.1	1352.6	1354.1	1355.6	1357.1	1353.6 1373.6	1360.1	1376.6	1378.1
07.20	1364.6	1366.1	1367.6	1369.1	1370.6	1372.1				
07.30	1379.6	1381.1	1382.6	1384.1	1385.6	1387.1	1388.6 1403.5	1390.1 1404.9	1391.5 1406.4	1393.0 1407.9
07.40	1394.5	1396.0	1397.5	1399.0	1400.5	1402.0	1403.5	1404.9	T+00.4	1401.9
07.50	1409.4	1410.9	1412.4	1413.9	1415.3	1416.8	1418.3	1419.8	1421.3	1422.7
07.60	1424.2	1425.7	1427.2	1428.7	1430.1	1431.6	1433.1	1434.6	1436.1	1437.5
07.70	1439.0	1440.5	1442.0	1443.4	1444.9	1446.4	1447.9	1449.3	1450.8	1452.3
07.80	1453.7	1455.2	1456.7	1458.2	1459.6	1461.1	1462.6	1464.0	1465.5	1467.0
07.90	1468.4	1469.9	1471.4	1472.8	1474.3	1,475.8	1477.2	1478.7	1480,1	1481.6
08.00	1483.1	1484.5	1486.0	1487.5	1488.9	1490.4	1491.8	1493.3	1494.8	1496.2
08.10	1497.7	1499.1	1500.6	1502.0	1503.5	1505.0	1506.4	1507.9	1509.3	1510.8
08.20	1512.2	1513.7	1515.1	1516.6	1518.0	1519.5	1520.9	1522.4	1523.8	1525.3
08.30	1526.7	1528.2	1529.6	1531.1	1532.5	1534.0	1535.4	1536.9	1538.3	1539.8
08.40	1541.2	1542.7	1544.1	1545.5	1547.0	1548.4	1549.9	1551.3	1552.8	1554.2
08.50	1555.6	1557.1	1558,5	1560.0	1561.4	1562.8	1564.3	1565.7	1567.2	1568.6
08.60	1570.0	1571.5	1572.9	1574.3	1575.8	1577.2	1578.6	1580.1	1581.5	1582.9
08.70	1584.4	1585.8	1587.2	1588.7	1590.1	1591.5	1593.0	1594.4	1595.8	1597.3
08.80	1598.7	1600.1	1601.6	1603.0	1604.4	1605.8	1607.3	1608.7	1610.1	1611.5
08.90	1613.0	1614.4	1615.8	1617.2	1618.7	1620.1	1621.5	1622.9	1624.4	1625.8
09.00	1627.2	1628.6	1630.0	1631.5	1632.9	1634.3	1635.7	1637.1	1638.6	1640.0
09.10	1641.4	1642.8	1644.2	1645.7	1647.1	1648.5	1649.9	1.6513	1652.7	1654.2
09.20	1655.6	1657.0	1658.4	1659.8	1661.2	1662.6	1664.1	1665.5	1666.9	1668.3
09.30	1669.7	1671.1	1672.5	1673.9	1675.3	1676.8	1678.2	1679.6	1681.0	1682.4
09.40	1683.8	1635.2	1686.6	1688.0	1689.4	1690.8	1692.2	1693.6	1695.0	1696.5
97.10	200.5+0	-3 · (-0 · c	2000.0	2000 • 0	**************************************	2070.0	*0>C1C	20/0.0	2075.0	2070.3
09.50	1697.9	1699.4	1700.5	1702.2	1703.6	1705.0	1706.4	1797.8	1709.2	1710.5
09.50	1711.9	1713.3	1714.7		1717.5	1718.9	1720.4		1723.1	1724.5
09.70	1725.9	1727.2	1728.6	1716.1 1730.0	1731.4	1732.8	1734.2	1721.7 1735.6	1737.0	1738.3
09.80	1732.7	1741.1	1742.5	1743.9	1745.3	1746.7	1748.0	1749.4	1750.8	1752.2
09.30	1753.6	1754.7	1756.3	1757.7	1759.1	1760.5	1761.8	1763.2	1764.6	1766.0
094.47	71 22+0	スインゲェブ	rt;,ω•3				-10L.0	11113+7	aronio	2100.0
				Ten	nperature	⇒ , r'				

TABLE 6 PLATINUM-PLATINUM + 13% RHODIUM (Continued)

	IABL	= 6 PL	A HRU	M-LTA	INUM +	13% KI				
							Refe	rence Ju	nction,	32 °F
Millivolta	.00	.01	.02	.03	• OF:	زه.	.06	.07	.00	.09
10.00	1767.4	1763.7	1770.1	1771.5	1772.9	1774.2	1775.5	1777.0	1770.4	1779.7
10.10	1731.1	1782.5	1783.9	1705.2	1736.6	1733.0	1709.3	1790.7	1792.1	1793.5
10.20	1794.3	1796.2	1757.6	1793.9	1000.3	1801.7	1303.0	1304.4	1305.3	1807.1
10.30	1303.5	1509.9	1311.2	1312.6	1314.0	1015.3	1316.7	1318 - 1	1019.4	18.30.5
10.40	1822.2	1002.5	1521.1	1026.2	1007.0	129.0	1030.3	1831.7	1333.0	1834.4
10.50	1835.8	1837.1	1830.5	1339.0	1341.2	1342.0	1843.9	1.45.3	1345.6	1848.0
10.60	1349.3	1850.7	1350.0	1853.4	1854.8	1850.1	1857	1250.8	1860.2	1861.5
10.70	1868.9	1864.2	1805.6	1866.9	1863.3	1069.6	1871.0	1872.3	1373.7	1875.0
10.80	1876.4	1877.7	1879.1	1300.4	1331.8	1063.1	1554.	1085.8	1857.0	1388.5
10.90	1889.9	1891.2	1898.5	1393.9	1895.2	1895.6	1897.9	1899.3	1900.6	1902.0
20.70			20,1	,	J.,,,,,,	20070	200100	057.0	2,000	.,
11.00	1903.3	1904.6	1906.0	1907.3	1905.7	1910.0	1911.4	1912.7	1914.0	1915.4
11.10	1916.7	1918.1	1919.4	1920.7	1922.1	1923.4	1924.7	1926.1	1927.4	1928.8
11.20	1930.1	1931.4	1932.8	1934.1	1935.4	1936.8	1938.1	1939.5	1940.8	1942.1
		1944.8			1948.3					
11.30	1943.5		1946.1	1947.5		1950.1	1951.5 1964.3	1952.8	1954.1	1955.5 1963.8
11,40	1956.3	1958.1	1959.4	1960.0	1962.1	1963,4	1904.0	1966.1	1001.4	1900+0
		. 04 1-								
11.50	1970.1	1971.4	1972.7	1974.1	1975.4	1976.7	1973.1	1979.4	1939.7	1.932.0
11.60	1983.4	1984.7	1936.0	1937.3	1988.7	1990.0	1001.3	1992.6	1994.0	1995.3
11.70	1996.6	1997.9	1999.3	2000.6	2001.9	2003.2	2004.6	2005.9	2007.2	2003.5
11.80	5003*8	2011.2	2012.5	2013.8	2015.1	2016,5	2017.8	2019.1	2020.4	2021.7
11.90	2023.1	2024.4	2025.7	2027.0	2028.3	2029.6	2031.0	2032.3	2033.6	2034.9
12.00	2036.2	2037.6	2033.9	2040.2	2041.5	2042,3	2044.1	2045.5	2016.3	2048.1
12.10	2049.4	2050.7	2052.0	2053.3	2054.7	2056.0	2057.3	2053.6	2059.7	2051.2
12.20	2062.5	2063.9	2005.2	2066.5	2067.8	2069.1	2070.4	2071.7	2073.0	2074.4
12.30	2075.7	2077.0	2078+3	2079.6	2080.9	5035.8	2033.5	2084.8	2036.0	2037.5
12.40	2088.8	2090.1	2091.4	2092.7	2094.0	2095.3	2096.6	2027.9	2099.2	2100.€
40.50	6464.0	0400.0				5100 b	0400.11		0440.3	±113.6
12,50	2101.9	2103.2	ر. المنتقدة	2110.0	2107.1	2100.4	2109.7	23.11.0	21.1.2.3	
12.60	::114.9	2116.2	2117.5	2118.9	2120.2	2121.5	8132.3	2124 - 1	2005.4	2120.7
12.70	2128.0	2129.3	2130.6	2131.9	2133.2	2134.5	2135.8	2137.1	21,55.4	2139.7
12,80	21/11.0	21/12.3	2153.6	21/41.9	21/16.2	21/7.5	2140.0	2150.2	2151.5	0152.3
12.90	2154.1	2155.4	2156.7	2153.0	2159.3	2160.6	2161.9	2163.2	2164.5	2165.8
										- + 550 0
13.00	2167.1	2168.4	2169.7	2171.0	2172.3	2173.6	2174.9	2176.2	2177.5	2178.8
13.10	2100.1	2131.4	2182.7	2194.0	2185.3	2136.6	2167.9	2159.8	2190.5	2191.8
13.20	2193.1	2194,4	2195.7	2197.0	2198.3	2199.6	2200.9	2505*5	2203.5	2204.7
13.30	2206.0	2207.3	2203.6	2209.9	2211.2	5575.2	2213.8	2215.1	2216.4	2217.7
13.40	2219.0	2220.3	2221.6	5555.3	2224.2	2225.5	5556*3	2228.1	5553.4	2230.7
13.50	2232.0	2233.3	2234.6	223,9	2237.2	2238.5	2239.8	2241.0	2242.3	2243.6
13.60	2244.9	2246.2	2247.5	2248.8	2250.1	2251.4	2252.7	225/1.0	2255.3	2256.6
13.70	2257.9	2259.2	2260.5	2261.8	2263.1	2264.4	2265.6	2266.9	2263.2	2269.5
13.80	2270.8	2272.1	2273.4	2274.7	2276.0	2277.3	2278.6	2279.9	2261.2	2282.5
13.90	2283.5	2285.1	2286.3	2287.6	2288.9	5350.5	8891.5	2292,3	2294.1	2295.4
1.4.00	2296.7	2298.0	2299.3	2300.6	2301.9	2303.2	2304.5	2305.7	2307.0	2303.3
14.10	2309.6	2310.9	2312.2	2313.5	2314.3	2316.1	2317.4	2315.7	2320.0	2321.3
14.20	2322.6	2323+8	2325.1	2326.4	2387.7	1320.0	2330.3	0334.6	0330.9	233k az
14.30	2335.5	2336.8	2333.1	2339.4	2340.7	2341.7	2345.2	1:344.5	1345.6	::347.1
14.40	2348.4	23/19.7	2354.0	2352.3	2353.6	2354.9	2350.2	1357.5	2350.7	23-0.0
	3.20								- '	
14.50	2361.3	2362.6	2363.9	2365.2	2366.5	2367.0	2367.1	1370.1	371.7	: 575.0
14.60	2374.3	2375.6	1376.9	2370.1	2379.4	2380.7	2332.0	83 3 -3	23 4.5	13100
14.70	2387.2	6388.5	2389.2	2391.1	2398.4	393.7	23050	2300.4	2327+5	1991.48
14.70	2400.1	2403.4	2402.7	2404.0	2405.3	2406.6	2907.0	:1.07.	1010.5	:515.
14.90	2415.1	5430.b	2015.7	2616.9	2615.5	2510.5	5000,5	1.775.4	ر غور ئال	14 4.7
37.20	الموريد		-74,701							
				Tem	erature,	, "r				

....

TABLE 6 PLATINUM-PLATINUM + 13% RHODIUM (Concluded

TABLE 6 PLATINUM-PLATINUM + 13% RKODIUM (Concluded										
							Re	ference	June tion	, 32 °₽
Millivolt	s ,(x)	.01	.02	.03	. 04	.05	•06	.07	.03	•09
15.00	2426.C		2428.6	2429.9	2431.2	2432.5	2/133.8	2435.1	2436,4	2437.7
15.10	2439.0	2440.3	2441.5	enhe.6	2444.1	2445.4	2446.7	5443.0	204.9.3	
15,20	2451.9	2453.0	2454.5	2455.8	2557.1	2453.4	2459.7	2461.0	2462.3	2463.6
15.30	54.64.9	2466,2	2467.5	2465.8	2470.1	2471.4	2472.7	2474.0		2476.6
15.40	2477.3	2479.1	2480.4	2481.7	2433.0	2484.3	2485.6	2486.9		2489.5
15.50	2490.8	2492-1	2493.4	2494.7	2496.0	2497.3	2498.6	2499.9	2501.2	2502.5
15.60	2503.8	2505.1	2506.4	2507.7	2509.0	25:0.3		2512.9	2514.2	2515.5
15.70	2516.8	2518.1	2519.4	2520.7	2522.0	2523.3	2524.6	2525.9	2567.2	2528.5
15.80	2529.8	2531.1	2532.4	2533.7	2535.1	2536.3	2537.7	2539.0	254:0.3	254:6
15.90	2542.9	2544.2	2545.5	2546.8	2548.1	2549.4	2550.7	2552.0	2553.3	2554.6
					-		- 22		~J_J_3•J	- 227110
16.00	2555.9	2557.2	2558.5	2559.8	2561.1	2562.4	2563.7	2565.0	2566.4	2567.7
16.10	2569.0	2570.3	2571.6	2572.9	2574.2	2575-5	2576.8	2578.1	2579.4	2580.7
16,20	2582.0	2583.3	2584.7	2586.0	2587.3	2588.6	2589.9	2591.2	2592.5	2593.8
16.30	2595.1	2596.4	2597.7	2599.1	2600.4	2601.7	2603.0	2604.3	2605.6	2606.9
16.40	2608.2	2609.2	2610,5	2611.8	2613.1	2614.4	2615.6	2616.9	261 8.2	2619.5
			-						***************************************	20172,
16.50	2620.8	2622.1	2623.4	2624.7	2626.0	2627.3	2628,6	2629.9	2634.1	2632.4
16.60	2633.7	2635.0	2636.3	2637.5	2630.9	2640.2	2641.5	2642.8	2644.1	2645.4
16.70	2646.7	2648.0	2649.3	2650.6	2651.9	2653.2	2654.5	2655.8	2657.1	2658.4
16.80	2659.7	2661.0	2662.3	2663.6	2664.9	2666.2	2667.5	8,8998	2670.1	2671.4
16.90	2672.7	2673.9	2675.3	2676.6	2677.8	2679.2	2680.5	2681.8	2683.1	2684.4
						• • • •			2000	200-14-1
17.00	2685.7	2687.0	2688,3	2639.6	2690.9	2692.2	2693.5	2694.8	2696.1	2697.4
17.10	2698.7	2700.0	2701.3	2702.6	2703.9	2705.2	2706.5		2709.1	2710.4
17.20	2711.7	2713.0	2714.3	2715.6	2716.9	2718.2	2719.5	2720.9	2722.2	2723.5
17.30	8,4273	2726.1	2727.4	2728.7	2730.0	2731.3	2732.6	2733.9	2735.2	2736.5
17.40	2737.8	2739.1	2740.4	2741.7	2743.0	2744.4	2745.7	2747.0	2748.3	2749.6
						-•	-1.7.1		C 0+J	2.14510
17.50	2750.9	2752.2	2753.5	2754.8	2756.1	2757.4	2758.7	2760.0	2761.3	2762.6
17.60	2764.0	2765.3	2766.6	2767.9	2769.2	2770.5	2771.8	2773.1	2774.4	2775.7
17.70	2777.0	2773.3	2779.6	2730.9	2782.2	2783.6	2784.9	2786.2	2787.5	2788.3
17.80	2790.1	2791.4	2792.7	2794.0	2795.3	2796.6	2797.9	2799.2	3800.7	2802.0
17.90	2803.4	2804.7	2806.n	2807.3	2808.6	2809.9	2811.2	2812.5	281.3.8	2815.1
	20034	-50.11				200717		2021.09	203.510	
18.00	2816.4	2817.8	2819.1	5950.4	2621.7	2823.0	2824.3	2885.6	2326.9	2028.2
18.10	2829.6	2330.9	2832.2	2833.5	2834.8	2836.1	2837.4	2838.7	234 0.1	2841.4
18,20	2842.7	2844.0	2845.3	2846.6	2847.9	2849.2	2850.6	2851.9	2853.2	2854.5
18.30	2855.8	2857.1	2858.4	2859.8	2361.1	2862.4	2863.7	2865.0	2866.3	2867.7
18.40	2869.0	2870.3	2871.6	2872.9	2374.2	2875.5	2876.9	2873.2	2879.5	2880.8
	200770	20,015		201217	201 1112	2013.5	4.01015	201011.	201 217	200010
18.50	2882.1	2883.4	2884.8	2886.1	2887.4	2888.7	2390.0	2891.3	2892,7	2894.0
18.60	2895.3	2896.6	2897.9	2899.2	2900.6	2901.9	2903.2	2904.5	2905.8	2907.2
18.70	2908.5	2909.8	2911.1	2912.4	2913.7	2915.1	2916.4	2917.7	291.9.0	2920.3
18.80	2921.7	2923.0	2924.3	2925.6	2926.9	2928.2	2929.6	2930.9	2932.2	2933.5
18.90	2934.8	2936.2	2937.5	2933.8	2940.1	2941.4	2942.8	2944.1	294 5.4	2946.7
20.70	20011	2,5,0,12	-23113	(.,),,,,,,,	271042		,			1.51011
19.00	2948.0	2949.4	2950.7	2952.0	2953.3	2954.6	2956.0	2957.3	2958.6	2959.9
19.10	2961.3	2962.6	2963.9	2965.2	2966.5	2967.9	2969.2	2970.5	2971.8	2973.3
19.20	2974.5	2975.8	2977.1	2978.4	2979.7	2931.1	2932.4	2983.7	2965.0	2906.4
19.30	2987.7	2989.0	2990.3	2991.6	8993.0	2994.3	2995.6	2996.9	29.23.2	2999.6
19.40	3000.9	3002.2	3003.5	3004.9	3006.8	3007.5	3003.8	3010.1	301.1.5	3012.8
	5000.7	2001.01	5.45.7	550.17	J300 .	300143	200010	J. J. J. J. J.	J. J. J. J.	2022.00
19,50	3014.1	3015.4	3016.3	3013.1	301).4	3020.7	3022.0	3003.4	30:_1.7	3026.0
19.60	3027.3	3028.7	3030.0	3031.3	3032,6	3933.9	3035.3	3036.6	3057.9	3039.2
19.70	3040.6	3041.9	3043.3	3054.5	3045.0	3057.2	30/15.5	3049.5	3051.1	3058.5
19.80	3053.8	3055.1	3056.4	3057.7	3059.1	3060.4	3064.7	3063.0	3004.3	3055.7
19.90	3067.0	3008.3	3069.6	3071.0	3072.3	3073.6	3074.7	3076-0	3077.6	307.9
-2-2-	51••	J	J		J-1J	J+1,J+0	J-1-42	J-1	w-1 1 ***	201717

Temperature, OF

Table 7

TABLE 7
TEMPERATURE VS MILLIVOLTS FOR COPPER-CONSTANTAN THERMOCOUPLES

									unction,	3500
Militvolts	.00	.01	.02	.03	• O ^l i	.05	•06	.07	.08	•03
-04.90	-0263.8	-0264.7	-0265.6	-0 266.5	-0267.4	0268.3	-0269.2	-0270.1	-0271.0	-0271.9
-04.30							-0260.3			
-04.70							-0251.6			
~04.60							-0243.2			
~ō4.50	-0530.0	-0230.9	-0231.7	~ 0232.5	·0233.3	-0234.1	-0234.9	-0235.7	-0236.6	-0237.4
~04.40	-0000 4	0000 D	-0002 7	oooli h	#000F 0	-0006 0	-000C D			
-04.40							-0226.8			
~04.20							-0218.9			
~04.20	200.0	#0400 O	+0200 7	-0200.9	*0000 ·1	-0303 g	-0211.2 -0203.6	-0212.0	-0212.7	-0213.5
-04.10	-0101 0	01773.5	~0402 2	-010L-0	-040h 8	=0405.5	-0196.2	-0204,4	-0205.1	-0205.9
O-1-00	017117	0172.40	O123013	017-7-0	0.074.0	0179.5	0130.5	0151.0	0751.1	0150.4
~03.90	-0184 7	-0185 4	-0186.1	- 0186 8	-0187 5	~ 0188 3	-0189.0	~0180.7	-0190 li	-0191 1
~03.80							-0181.9			
~03.70							-0174.9			
-03.60							-0168.1			
-03.50							-0161.4			
-3.5.			,,		-20	,		0202.0	02021	0,00,00
-03.40	-0150.9	-0151.6	-0152.2	-0152.8	*003.5	-0154.1	-0154.8	-0155.4	-0156-1	-0155.8
-03.30	-0144.5									
~03,20	-0138.2									
~03.10							-0135.7			
-03.00	-0126.0									
~02.90	-0120.0	-0120.6	-0121.2	-0121.8	-0122.4	-0123.0	-0123.6	-0i24.2	-0124.8	-0125.4
~02.80	-0114.1	-0114.6	-0115.2	-0115.8	-0116.4	-0117.0	-0117.6	-0118.2	-0118.8	-0119.4
~02.70	-0108,2	8.801c-	~0109.4	-0110.0	-0110.5	-0111.1	-0111.7	-0112.3	-0112.9	-0113.5
-02.60	~0102.5	-0103.0	-0103.6	-0104.2	-01.04.8	-0105.3	-0105.9	-0106.5	-0107.1	-0107.6
-02.50	-0096.8	-0097.3	-0097.9	-0098.5	-0099.0	-0099.6	-0100.2	-0100.7	-0101.3	-0101.9
-02.40	-0004 4	0004 77	-0000 0	-0000 9	#0002 li	-0000 0	-0094.5	-2005 4	-000c 6	=000C 0
-02.40							-0088.9			
-02.30							-0083.3			
-02.10							-0077.8			
~02.00							-0072.3			
02.00	000000	000710	001012	00 01	001 201	30,3.00	0012.0	00,210	00,50	** 5**
-01.90	~0063.6	-0064-1	-0064.7	-0065.2	-0065.8	-0066.3	-0066.9	-0067.4	~0067.9	-0068.5
-01.80							-0061.4			
-01.70							~0056.0			
-01.60							-0050.6			
-01.50										-0046.9
-										
-01.40	-0036.6	-0037.2	-0037.7	-0038.3	-0038.8	~0039.3	-0039.9	-0040.4	-0040.9	-0041.5
-01.30							-0034.5			
-01.20	-0026.2	-0026.7	-0027.2	~0027.7	-0028*8	-0028.7	-0029.2	-0029.6	-0030.2	-0030.7
-01.10							-0024.2			
-01.00	-0016.2	-0016.7	-0017.2	-0017.7	-0018.2	-0018.7	-0019.2	-0019.7	-0020.2	-0020.7
-00.90							-001/1.2			
-00.80							-0009.3			
-00.70							-0004 • 4			
-00.60				0001.9			0000.4			
-00.50	0003.1	0007.7	0004.S	0006.7	0006.2	0005.7	0005.3	0004 ₊8	0004.3	8.8000
-00.40		0012.5								
-00.30	0017.7	0017.2								
00.20	0022.4									
-00.10	0027.2	0026.7	0056*5		0025.3	0084.8		0023.9		0022*9
-00.00	0031.•8	0031.4	0030.9				00:9.0	0028.6	0028.1	9.4800
				re	mperatur	c, r				

TABLE 7 COPPER-CONSTANTAN (Continued)

							-			
							Ref	erence in	metion,	35 0₺
Militvoits	.00	.01	.02	.03	,04	ر05	.06	.07	.03	.09
00.00	0031.8	0032.3	0032.8	0053.2	0033.7	0034.2	0034.6	0035.1	0035,6	0036.0
00.10	ამებ∙ე	0037.0	0037.4	0037.9	₩.8£00	8,8800	0039.3	0039.8	0040.2	0040.7
00.20	0041.1	0041.6	0042.1	0042.5	0045.0	0043.5	0043.9	0044.4	0044.8	0045.3
00.30	0045.8	0046.2	0046.7	0047.1	0047.6	0048.1	0048.5	0.6400	0049.4	0049.9
00.40	0050.3	8,0200	0051.3	0051.7	0052.2	0052.6	0053.1	0053.5	0054.0	0054.5
00.50	0054.9	0055.4	0055.8	0056.3	0055.7	0057.2	0057.6	0058.1	0058.5	0059.0
00.60	0059.5	0059.9	0060.4	8.0000	0064.3	0061.7	0052.2	0062.6	0063.1	0063.5
00.70	0064.0	0064.4	0.064 • 9	0065.3	0005.8	0066.2	0066.7	0067.1	0067.6	0.8800
08,00	0068.5	0068.9	0069.4	6069.8	0070.3	0070.7	0071.1	00/1.6	0072.0	0072.5
00.90	0072.9	0073.4	0073.8	0074.3	0074.7	0075.2	0075.6	0076.0	0076.5	0076.9
01.00	0077.4	0077.8	0078.3	0078.7	0079.2	0079.6	0.0300	0080.5	0080.9	0031.4
01.10	0031.8	0082.2	0082.7	0033.1	0093.6	0084.0	0084.5	0084.9	0085.3	0085.8
01.20	0086.2	0036.7	0037.1	0087.5	0.8800	0088.4	8,8800	0089.3	0089.7	0090.2
01.30	0090.6	0091.0	9091.5	0091.9	0092.3	0092.8	0093.2	0093.6	0094.1	0094.5
01.40	0095.0	0095.4	0095.8	0006.3	0096.7	0097.1	0097.6	0.8600	0098.4	0098,9
01.50	0099.3	0099.7	0100.2	0100.6	0101.0	0101.5	0101,9	0102.3	0102.7	0103.2
01.60	0103.6	0104.0	0104.5	0104.9	0105.3	0105.8	0106.2	0106.6	0107.0	0107.5
C170	0107.9	01.08.3	0108.8	0109.2	0109.6	0110.0	0110.5	0110.9	0111.3	0111.8
02.30	0112.2	0112.6	0113.0	0113.5	0113.9	0114.3	0114.7	0115.2	0115.6	0116.0
01.90	01.16.4	0116.9	0117.3	0117.7	0118.1	0118.6	0119.0	0119.4	0119.8	0120.2
02.00	0120.7	0121.1	0121.5	0121.9	0122.4	0122.8	0123.2	0123.6	0124.0	0124.5
02.10	0124.9	0125.3	0125.7	0126.1	3126.6	0127.0	0127.4	0127.8	0128.2	0128.7
02.20	0129.1	0129.5	0129.9	0130.3	0130.8	0131.2	0131.6	0132.0	0132.4	0132.8
02.30	0133.3	0133.7	0134.1	0134.5	0134.9	0135.3	0135.7	0136.2	0136.6	0137.0
08.40	0137.4	0137.8	0138.2	0138.7	0139.1	0139.5	0139.9	0140.3	0140.7	0141.1
02.50	0141.5	0142.0	0142.4	0142.8	0143.2	0143.6	0144.0	0144.4	0144.8	0145.3
02.60	0145.7	0146-1	0146.5	0146.9	0147.3	0147.7	0148.1	0148.5	0148.9	0149.4
02.70	0149.8	0150.2	0150.6	0151.0	0151.4	0151.8	01.52.2	0152.6	0153.0	0153.4
02.80	0153.8	0154.3	0154.7	0155.1	0155.5	0155.9	0156.3	0156.7	0157.1	0157.5
02.90	0157.9	0158.3	0158.7	0159.1	0159.5	0159.9	0160.3	0160.7	0161.2	0161.6
******	425145	011190119	02,7001	02// - 2			***************************************	02,000,	0.202.	020270
03.00	0162.0	0162.4	0162.8	0163.2	0163.6	0164.0	0164.4	0164.8	0165.2	0165.6
03.10	01.66.0	01.66.4	0166.8	01.67.2	0167.6	0168.0	01,68,4	0168.8	0169.2	0169.6
03.20	0170.0	0170.4	0170.8	0171.2	0171.6	0172.0	0172.4	0172.8	0173.2	0173.6
03.30	0174.0	0174.4	0174.8	0175.2	0175.€	0176.0	0176.4	0176.8	0177.2	0177.6
03.40	0178.0	0178.4	0178.8	0179.2	0179.6	0180.0	0180.4	0180.7	0181.1	0181.5
-50.0	0,0,000	02.104	021000	0.2,542	02,15.0	020000	42,000	0.25041	01.01.01	•101.
03.50	0181.9	0182.3	0182.7	0183.1	0183.5	0183.9	0184.3	0184.7	0185.1	0185.5
03.60	0185.9	0186.3	0186.7	0187.1	0187.5	0187.9	0188.2	0188.6	0189.0	0189.4
03.70	0189.8	0190.2	0190.6	0191.0	0191.4	0191.8	0192.2	0192.6	0192.9	0193.3
03.80	0193.7	0194.1	0194.5	0194.9	0195.3	0195.7	0196.1	0196.5	0196.9	0197.2
03.90	0197.6	0198.0	0193.4	0198.3	0199.2	0199.6	0200.0	0200.3	0200.7	0201.1
-5.7										
04.00	0201.5	0201.9	0202.3	0202.7	0203.1	0203.5	0203.8	0204.2	0204.6	0205.0
04.10	0205.4	6205.8	0206.2	0206.5	0206.9	0207.3	050(.7	0203.1	0203.5	0208.9
04.20	0209.2	0209.6	0210.0	0210.4	0210.8	0211.2	0211.5	0211.9	0212.3	0212.7
04.30	0213.1	0213.5	0213.8	0214.2	0214.6	0215.0	0215.4	0215.8	0216.1	0216.5
01.40	0216.9	0217.3	0217.7	0218.1	0213.4	0218.8	0219+2	0219.6	0220.C	0220.3
								-		
04.50	0220.7	0221.1	0221.5	0221.9	0288.2	0555*6	0553.0	0223.4	0223.8	0224.1
04.60	0224.5	0224.9	0225.3	0225.7	0226.0	0226.4	9.9550	0227.2	0551.6	0227.9
04.70	0228.3	0228.7	0229.1	0229.4	0229.8	0230.2	0230.6	0231.0	0231.3	0231.7
04.80	0232.1	0232+5	0238.8	0233.2	0233.6	0234.0	0234.3	023/1.7	0235.1	0235.5
04.90	0235+8	0236.2	0236.6	0237.0	9237 • 3	0237+7	0238.1	0238.5	0238.8	0239.2
	-					ture, or				_
					7 be v cc					

TABLE 7 COPPER-CONSTANTAN (Continued)

		IADL	, .	01 1 1.10			. (50	,		
							Ref	erence J	unction,	32 °P
Millivolts	.00	.01	.02	.03	.04	.05	.06	.07	.03	.09
05.00	0239.6	0240.0	0240.3	0240.7	0241.1	0241.5	0241.8	03/12.2	0242.6	0243.0
05.10	0243.3	0243.7	0244.1	0244,5	0244.8	0245.2	0245.6	0245.9	0246.3	0246.7
05.20	0247.1	0247.4	0247.8	0248.2	0248.5	0248.9	0249.3	0249.7	0250.0	0250.4
05.30	0250.8	0251.1		0251.9	0252.3				-	-
			0251.5	-		0252.6	0253.0	0253.4	0253.7	025 1
05.40	0254.5	0254.8	0255.2	0255.6	0255.9	0256.3	0256.7	0257.1	0257.4	0257.8
05.50	0258.2	0258.5	0258.9	0259.3	0259.6	0260.0	0260.4	0260.7	0261.1	0261.5
05,60	0261.8	0262.2	0262.6	0262.9	0263.3	0263.7	0264.0	0264.4	0264.8	0265.1
05.70	0265.5	0265.9	0266.2	0266.6	0267.0	0267.3	0267.7	0268.1	0268.4	0268.8
05.80	0269.2	0269.5	0269.9	0270.3	0270.6	0271.0	0271.4	0271.7	0272.1	0272.5
05.90	0272.8	0273.2	0273.6	0273.9	0274.3	0274.6	0275.0	0275.4	0275.7	0276.1
			-11,34-	461317	021113	0	02/510	021311	06/56	02.1012
06.00	0276.5	0276.8	0277.2	0277.6	0277.9	0278.3	2020 (000000	oomo li	0000 0
06.10	0280.1						0278.6	0279.0	0279.4	0279.7
		0280.5	0280.8	0281.2	0281.5	0281.9	0282,3	0282.6	0283.0	0283.3
06.80	0283.7	0284.1	0284.4	0284.8	0285.2	0285.5	0255.9	0286.2	0286.6	0287.0
06.30	0287.3	0287.7	0.8330	0288.4	0288,8	0289.1	J289.5	0289.8	0290.2	0290.6
06.40	0290.9	0291.3	0291.6	0292.0	0292,4	0292.7	0293.1	0293.4	0293.8	0294.2
06.50	0294.5	0294.9	0295.2	0295.6	0296.0	0296.3	0296.7	0297.0	0297.4	0297.7
06.60	0298.1	0298.5	0298.8	0299.2	0299.5	0299.9	0300-3	0300.6	0301.0	0301.3
06.70	0301.7	0302.0	0302.4	0302,8	0303.1	0303.5	0303.8	0304.2	0304.5	0304.9
06.80	0305.3	0305.6	0306.0	0306.3	0306.7	0307.0	0307.4	0307.7	0308.1	0308.5
06.90	0308.8	0309.2	0309.5	0309.9	0310.2	.0310.6	0311.0			
00.70	030010	030912	0,0075	0309.9	0310.2	.0310+0	0311.0	0311.3	0311.7	0312.0
	0740 h	0010 H			0010 0					
07.00	0312.4	0312.7	0313.1	0313.4	0313.8	0314.1	0314.5	0314.9	0315.2	0315.6
07.10	0315.9	0316.3	0316.6	0317.0	0317.3	0317.7	0318.0	0318.4	0318.8	0319.1
07.20	0319.5	0319.8	0320.2	0320.5	0320.9	0321.2	0321.6	0321.9	0322.3	0322.6
07.30	0323.0	0323.4	0323.7	0324.1	0324.4	0324.8	0325.1	0325.5	0325.8	0326.2
07.40	0326.5	0326.9	0327.2	0327.6	0327.9	0328.3	0328.6	0329.0	0329.3	0329.7
07.50	0330.1	0330.4	0330.8	0331.1	0331.5	0331.8	0335.8	0332.5	0332.9	0333.2
07.60	0333.6	0333.9	0334.3	033排•6	0335.0	0335.3	0335.7	0336.0	0336.4	0336.7
07.70	0337.1	0337.4	0337.8	0338.1	0338.5	0338.8	0339.2	0339.5	0339.9	0340.2
07.80	0340.6	0340.9	0341.3	0341.6	0342.0	0342.3	0342.7	0343.0	0343.4	0343.7
07.90	0344.1	0344.4	0344.8	0345.1	0345.5	0345.8	0346.2	0346.5	0346.9	0347.2
*,***	-5	43	•5	03.502	~J.J.J	43.540	031012	031013	03.00	031112
08.00	0347.6	0347.9	0348.3	0348.6	0349.0	0349.3	0349.7	0250 0	oaco li	0250 7
	-							0350.0	0350.4	0350.7
08.10	0351.1	0351.4	0351.8	0352.1	0352.5	0352.8	0353.2	0353.5	0353.9	0354.2
08.20	0354.6	0354.9	0355.3	0355•6	0356.0	0356.3	0356.7	0357.0	0357.4	0357 • 7
08.30	0358.1	0358.4	0358.8	0359.1	0359.5	0359.8	0360.2	0360.5	0360.8	0361.2
03.40	0361.5	0361.9	0362.2	0362.6	0362.9	0363.3	0363.6	0364.0	0364.3	0364.7
08.50	0365.0	0365.4	0365.7	0366.1	0366.4	0366.8	0367.1	0367.5	0367.8	0368.2
08,60	0368.5	0368.8	0369.2	0369.5	0369.9	0370.2	0370.6	0370.9	0371.3	0371.6
08.70	0372.0	0372.3	0372.7	0373.0	0373.4	03/3.7	0374.1	0374.4	0374.7	0375.1
08.80	0375.4	0375.8	0376.1	0376.5	0376.8	0377.2	0377.5	0377.9	0378.2	0378.6
08.90	0378.9	0379.3	0379.6	0380.0	0380.3	0380.6	0384.0	0381.3	0381.7	0382.0
***************************************	031007	031703	031770	0,000	03//01/3	0,0000	0,00,00	0,010,	0,0201	0,001.10
09.00	eage h	0382.6	0393 0	0000 0	0202 5	0201-0	0001: 0	noch r	0000	0001: 0
	0382.4	-	0383.0	0383.3	0383.7	0384.0	0384.3	0384.7	0385.0	0385.3
09.10	0385.7	0386.0	0386.4	0386.7	0387.0	0387.4	0387.7	0388.0	0388.4	0388.7
09.20	0389.1	0389.4	0389.7	0390.1	0390.4	0390.7	0391.1	0391.4	0391.6	0392.1
09.30	0392.4	0392.8	0393.1	0393.4	8, 6950	0394.1	0394.5	0394.8	0395.1	0395•5
09.40	0395.8	0396.1	0396.5	0396.8	0397.1	0397.5	0397.8	0398.2	0398.5	0398.8
09.50	0399.2	0399.5	0399.8	0400.2	0400.5	0400.8	0401.2	0401.5	0401.8	0402.2
09.60	0402.5	0402.9	0403.2	0403.5	0403.9	0404.2	0404.5	0404.9	0405.2	0405.5
09.70	0405.9	0406.2	0406.5	0406.9	0407.2	0407.5	0407.9	0408.2	0408.5	0408.9
09.80	0409.2	0409.5	0409.9	0410.2	0410.6	0410.9	0411.2	0411.6	0411.9	0400.9
09.00	0412.6	0412.9	0413.2	0410.2	0413.9	0410.9	0411.2	0414.9		
09.50	043234b	991.0.59	04.03.2	-		0714.2	-414.b	0414.9	0/15.8	0415.6
				Tempo	rature,	r				

TABLE 7 COPPER-CONSTANTAN (Continued)

							33	eference	Junetion	, 32 °F
	.00	.01	.02	.03	.04	.05	.06	.07	،0ن	.09
Millivolts	0415•9			0416.9	oh 17.2	0417.6		0418.2	0418.6	C418.9
10.00 10.10	0419.2		GA13.9	0420.2	0420.5			0421.5	0421.9	0482.2
	0422.5		0423.2	0423.5	0423.9	0484.8	0424.5	0424.9	0425.2	0425.5
10.20	0425.9		0426.5	0426.9	0427.2		0427.8	0428.2	0428.5	0428.8
10.30 10.40	0429.2	· · · · ·	0429.8	0430.2	0430.5	0430.8	0431.2	0431.5	01.37.8	0432.1
10040	04:54	,								
40.50	0432.5	0432.8	0433.1	0433.5	0433.8			0434.8	0/135.1	0435.5
10,50 10,60	0435.8		0436.4	0436.ზ			0437.8	0438.1	0438.4	0438.7
10.70	0439.1		0439.7	0440.1	0440,4	0440.7	0441.1	0445.4	0441.7	0442.0
10.80	0442.4		0443.0	0443.4		いけけい	0444.3	0.144.7	0445.0	0445.3
10.90	0445.7		0446.3	0446.6	0447.0	0417.3	0447.6	0448.0	0448.3	0448.6
10.90	0.1,,.,									
11.00	0448.9	0449.3	0449.6	0449.9		0450.6	0450.9	0451.2	0451.6	0451.9
11.10	0452.2	0452.5	0452.9	0453.2		0453.8	0454.2	0454.5	0454.8	0455.2
11.10	0455.5	0455.8	0/156.1	0456.5	0456.8	0457.1		0457.8	C458.1	0458.4
11.20	0458.7	0459.1	0459.4	0459.7	0460.1	0460.4	0460.7	0461.0	0461.4	0461.7
11.40	0462.0		0462.7	0463.0	0463.3	0463.6	0464.0	0464.3	0454.6	0464.9
11.40	,									
11.50	0465.3	0465.6	0465.9			0466.9	0467.2	0467.5	0467.9	0468.2
11.60	0468.5	0468.8	0469.2	0469.5		0470.1	0470.5	0470.8	0471.1	0471.4
11.70	0471.8	0472.1	0472.4	0472.7	0473.1	0473.4	0473.7	047/1.0	0474.4	0474.7
11.80	0475.0	0475.3	0475.6	0476.0		0476.6	0476.9	0477.3	0477.6	0477.9
11.90	0478.2	0478.6	o478.9	0479.2	0479.5	0479.9	0480.2	0480.5	0480.8	0481.1
22.7							ooo h	akon u	aliali a	
12.90	0481.5	0481.8	0482.1	0482.4		0483.1		0483.γ	0484.0	0484.4
12.10	0484.7	0485.0	0485.3	0485.7	0486.0	0486.3		0486.9	0487.3	0487.6
12.20	0487.9	0488.2	0488.6	0488.9		0489.5	0489.8	0490.2	0490.5	0490.8
12.30	0491.1	0491.5	0491.8	0492.1		0492.7	0493.1	0493.4	0493.7	0!194.0
12.40	0494.3	0494.7	0495.0	0495.3	0495.6	0495.9	0496.3	0496.6	0496.9	0497.2
2										
12.50	0497.5	0497.9	0498.2	0498.5	0498.8	0499.1	0499.5	0499.8	0500.1	0500.4
	0500.7	0501.1	0501.4	0501.7	0502.0	0502.3	0502.7	0503.0	0503.3	0503.6
12.60	0503.9	0504.3	0504.6	0504.0	0505.2	0505.5	0505.9	0506.2	0506.5	0506.8
12.70	0507.1	0507.5	0507.8	0508.1	0508.4	0508.7	0509.1	0509.4	0509.7	0510.0
12.60	0510.3	0510.6	0511.0	0511.3	0511.6	0511.9	0512.2	0512.6	0512.9	0513.2
12.90	0910.3	0,,,,,,,,,		-						
13.00	0513.5	0513.8	0514.1	0514.5	0514.8	0515.1	0515.4	0515.7	0516.1	0516.4
_	0516.7	0517.0	0517.3	0517.6	0518.0	0518.3	0518.6	0518.9	0519.2	0519.5
13.10 13.20	0519.9	0520.2	0520.5	0520.8	0521.1	0521.4	0521.8	0522.1	0522.4	0522.7
13.30	0523.0	0523.3	0523.7	0524.0	0524.3	0524.6	0524.9	0525.2	0525.6	0525.9
13.40	0526.2	0526.5	0526.8	0527.1	0527.5	0527.8	0528.1	0528.4	0528.7	0529.0
12.40	0)	.,,	-							
13.50	0529.4	0529.7	0530.0	0530.°	0530.6	0530.9	0531.3	0531.6	0531.9	0532 . 2
13.60	0532.5	0532.8	0533.1	0533.5	0533.8	0534.1	0534,4	0531.7	0535.0	0535.3
13.70	0535.7	0536.0	0536.3	0536.6	0536.2	0537.2	0537.6	0537.9	0538.2	0538.5
13.80	0538.8	0539.1	0539.4	0539,8	0540.1	0540.4	0540.7	0541.0	0541.3	0541.6
13.90	0542.0	0542.3	0542.6	0542.9	0543.2	0543.5	0543.8	0544.2	0544.5	0544.8
13.50	05.12.0									
14.00	0545.1	0545.4	0545.7	0546.0	0546.3	0546.7	0547.0	0547.3	0547.6	0547.9
14.10	0548.2	0548.5	0543.9	0549.2	0549.5	0549.8	0550.1	0550.4	0550.7	0551.0
14.20	0551.4	0551.7	0552.0	0552+3	0552.6	0552.9	0553.2	0553.5	0553.9	0554.2
14.30	0554.5	0554.3	0555.1	0555.4	0555•7	0556.0	0556.4	0556.7	0557.0	0557.3
14.40	0557.6	0557.9	0558.2	0558.5	0558.9	0559.2	0559.5	0559.8	0560.1	0560,4
										
14.50	0560.7	0561.0	0561.3	0561.7	0562.0	0562.3	0562.6	0562.9	0563.2	0563.5
14.60	0563.8	0564.1	0564.5	9.4020	0565.1	0565.4	0565.7	0566.0	0566.3	0566.6
14.70	0566.9	0567.3	0567.6	0567.9	0568.2	2568.5	0568.8	0569.1	0569.4	0569.7
14.80	0570.0	0570.4	0570.7	0571.0	0571.3	0571.6	0571.9	0572.2	0572.5	0572.8
14.90	0573.2	0573.5	0573.8	0574-1	0574.4	0574.7	0575.0	0575.3	0575.6	0575.9
				Tempe	rature,	o.k				

TABLE 7 COPPER-CONSTANTAN (Concluded)

						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	•	-		
					est.				Junetion	n, 1
Marianotas	.00	.01	-0:	.0.	• 04	, U·,	, illi	.67	**F.,	3.50
i 1, C.)	m./1.0	0576.6	05/6.9	0577	09/75	0.44.9	0.73.1	0 5 5	Arres of	1 (1)
15, 10	0.47.1.3	0579.6	0580.0	0930.3	0.080	0.20.5	0531!	$\alpha > 1$	0.51.0	0 5 -1
15.0	0 \otimes 0	0585.7	0583.0	0583.4	0583.7	$\alpha_{2} \pi_{2} \alpha$	$0; dV_{\bullet,\bullet};$	0904.6	0,040	11 / 11.
10.430	95.75.2	0500.8	Ophosic	$a_{p,3n,4}$	0.86.7	3:3Y+7	0:37.0	0.7.7	$\alpha_{*}\cap _{\bullet}\alpha$	1, 11,
10.40	0.000	0533.3	098 7.0	0,83,6	01, 1913	1703.1	0.93,4	05.30.7	3,8.1	1 11.7
1,5450	$\alpha_0 = 7$	3590.0	0598+3	0592	0255*0	0.93.2	defection	0,935-6	0.8.1	on that
1,4.00	$\sigma_{S^{+}}$, γ	05950	$0_{12})_{12}$	0.5%	ენენ ∙ 0	$0596_{\bullet}5$	09/2000	0.196 ± 1	0.177	3.44
35.70	W. 17. 19	0598.1	0598 . h	0507	0.99_{-0}	0997*.;	0:79.7	0.000.0	0660.4	0.000
15,50	ar out, I	0604.0	06015	d60)(,d	00004	μ_{\bullet} coors	0600.7	060,5.0	060,5.3	01/03:0
15,50	900 E. 3	0604.2	0.001.0	0.005)	agapta.	$(H_iO)_{i=1}$	$\partial_{\sigma}\sigma[G\sigma\theta]$	-acco.1	$(G, r')_{G \in \mathcal{G}}$	0.00.1
10,00	ocorr.o	0607.3	0.07.6	$\sigma_2\sigma\gamma_{\bullet}\sigma$	3603,7	$\Omega_{\rm O}(G_{\bullet})_{\star}$	05001,8	060 (4.3)	(a_i, a_i, b_i, b_i)	0004
1,6 - 10	coto, L	0640.4	0610.7	0.11.0	0011.3	0611.6	0634.49	oot:	0.401.0	autoria
36.00	an 4.1.	0613.4	0643.7	0.01/0.0	0614.3	0644.6	05.15.9	0019.2	autos	0.16.0
16.30	0010.1	0610.5	0616.5	0547.4	00-17-4	0607.7	9613.0	Oratifa, a	0616.46	$\alpha, \alpha' * 9$
مالي بار	0.1 57	0619.5	9649.5	0.0004	0600.4	0000.7	0501.40	0691.3	0801.0	escontains
1,0,90	are the	06.555	00003.6	0603.1	0623,4	060378	00091+3	$\cos \theta_{\bullet} t$	$\alpha_0, \alpha_0, \gamma$	01.15.0
1(,,1,0	a_0, \ldots, s	0625.6	0e2549	0000042	0626.5	$OG(G_{\bullet}B)$	06:7 .1.	0627.4	05:77	$\alpha: \mathbb{N}, \alpha$
16.70	July 15 1. 3	0628.6	06:33.9	090970	0629.5	0629.3	0630.1	0630.4	9630.7	0.51.0
26.60	0631.3	0631.6	0631.9	0630411	0632.5	0630.43	0653.3	0633.4	0633.7	5. B. 1
1.6 . 90	9634 - ^{II}	0634.7	0635.0	0635+3	003246	0635+9	0636.7	0636.5	0536.8	0.573
17,00	$0037 \cdot h$	0637.7	0638.0	0638.3	0638.6	0636.9	0639.0	0639.5	0659.8	0.30.1
1.7 • 10	$\alpha \alpha_{1} \alpha_{2} A$	0.040.7	0.643	0641.3	06 ^l l1.6	0.041.9	6645.5	0642.5	054(248	0.43.1
17.20	0.43.4	0643.7	0644.0	06相。3	0644.6	06/91.9	06/15.2	0645.5	9049.8	$OO^{2}(r_{\bullet})$
17.30	oo_{G}	0646.7	0647.0	0647.3	0647.6	0647.9	0648.2	0.648	06/63.8	06 ¹ P).i
17.40	a_{0}	0049.7	0650.0	0650.3	0650,6	0650.9	0650.0	0691.5	065,1,28	orac, i
17.50	0050-4	0650.7	0653.0	0653.3	0653.6	0653.9	065/14	005/1.5	0994.3	Outstand 1
17.60	0055 • 4	0555.7	0656.0	0656.3	0656.6	0656.9	0697.1	0657.5	6.17-8	0655.1
17.70	0658+4	0658.7	0659.0	0659.3	0659.6	0699.0	0660.0	0660.5	8.0660	0661.1
17,80	0661.4	0661.7	0662.0	0662.3	0662.6	0668.9	0663.2	3663.5	0665.8	066h.1
17.90	0664.4	0664.7	0665.0	0665.3	0665,6	0005.3	0000042	0666.5	0666.8	0667.1
31.70	000714			,		000,14,7	. (7.1174)	J		
18.00	0667.4	0667.7	0668.0	0668.3	0668.6	0668.9	0669.2	0669.5	0569.8	0670.1
18.10	0670-4	0670.7	06710	0671.3	9671.6	0671.9	0672*5	0672.5	6.5780	0073.3
18.20	0673 · A	0673.7	0674.0	0674.3	0674.6	0674.9	0675.2	0675.5	0675.8	0676.1
18.30	0676	0676.7	0677.0	0677.2	0677.5	0677.8	0678.1	0678.4	0678.7	0679.0
18.40	0679 • 3	0679.6	9679.9	0680 -11	0680.5	3,0800	06833	00001.4	0681.7	0682.0
07440	0015	(>	00()00			30,000	CCC 35.435	00,7,7 8 1		***********
18,50	0682+3	0682-6	06821.9	0683 ac	0683.5	0683	0684.1	0684.4	0684.7	0685.0
18.60	0685.3	0685.6	0685.9	0686.0	0666.5	3.0890	0687.1	0687.4	0687.6	0.87.5
16.70	0688•2	0688.5	8,8830	0689.1	0689.4	0689.7	0690.0	0690.3	0690.6	0630.9
18.80	0691.43	0691.5	0691.8	0692.1	069; J	0692.7	0653.0	0693.3	0693.6	00 (349
18.90	0694 - 2	0694.5	8.4690	0695.1	0695.3	0695.6	0695.9	0696.2	0696.5	8.0039
,504 ,711	00).				24.)		005,76,			
19.00	0697 -1	0697.4	0697.7	06980	0698.3	0698.6	0693.9	0699.2	0699.5	069948
19.10	0700-1	0700.4	0700.7	0701.0	0701.3	9701.6	0701.9	0708.1	0702.4	0702.7
19.20	0703.0	6703.3	0703.6	c703.9	0701.6	9/04-5	070/1,3	0705.1	0705.4	0705.7
19.30	0706.0	0706.3	0706.6	0706.9	0707.2	9001.5	0707.3	0705.0	0705.3	0,08.6
19.40	0708-9	0709.2	0709.5	0709.8	0710.1	0710.4	0719.7	0711.0	0711.3	0711.6
.,,,,,,,,,	0100-2	-1 -> 414	-1-243	-1-2-0	. 2004.1.	017044	212041	91220	~1 ~ × × 3	3,200
19.50	0711.9	0712.2	0712.5	0712.8	0713.0	9(1.5 - :	9/13.6	9733.9	073/1.2	0714.5
	0714.8	0715.1	0715.4	0715-7	0715.0					
19,60	9717.8	0718.0	0713.1	0718.6	07:3.9	0716.3	0716.5	073.6.9	0717.2	0717.5 0720. it
19.70		9721.9	0721.3	0781.6	9784.9	077.140	0/19-5	0717.8	0770.1	0770.4
19.80	7.0370		07:11-3			377. 152	07233.b	07:57.7	0783.0	0/23.3
19,90	0783.6	oy23.5	Open all		. 072k.s	erre i i i	o7: 5.4	0,452.4	oye6 .o	0726.3
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